Columbia Analytical Services INC.
An Employee - Owned Company

CHAIN OF CUSTODY

SR#: ____________

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

PAGE ______ OF ______ COC # ______

PROJECT NAME: SEATTLE WASTEWATER
PROJECT NUMBER:
PROJECT MANAGER: LARRY GENTILE
COMPANY/ADDRESS: LFPPI
5901 EAST MARGINAL WY S
CITY/STATE/ZIP: SEATTLE WA. 98134
E-MAIL ADDRESS: lrgentile@longfibre.com
PHONE: 206-762-7170 | 206-767-2442
SAMPLER'S SIGNATURE: [signature]

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐	Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐	Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐	☐ Fuel Fingerprint (FID) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐	PCB's Aroclors ☐ Congeners ☐	Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐	Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐	PAHs 8310 ☐ SIM ☐	Metals, Total or Dissolved (See list below)	Cyanide ☐	Hex-Chrom ☐	pH, Cond, Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle)	NH3-N, COD, Total-P, TKN, TOC, DOC (circle) NO2+NO3	TOX 9020 ☐ AOX 1650 ☐ 506 ☐				REMARKS
DECANT #1	3.25.08	1120			1										X									
DECANT #1	4.1.08	1320			1										X									
DECANT #1	3.29.08	0750			1										X									
DECANT #1	4.4.08	0836			1										X									
DECANT #1	4.4.08	2305			1										X									

REPORT REQUIREMENTS
X I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
___ III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION
P.O. # ____________
Bill To: ____________

TURNAROUND REQUIREMENTS
___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results
____
Requested Report Date

Circle which metals are to be analyzed:
Total Metals: Al As Sb Ba Be B Ca Cd Co Cr (Cu) Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V (Zn) Hg
Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:______ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

Container Supply Number
7465

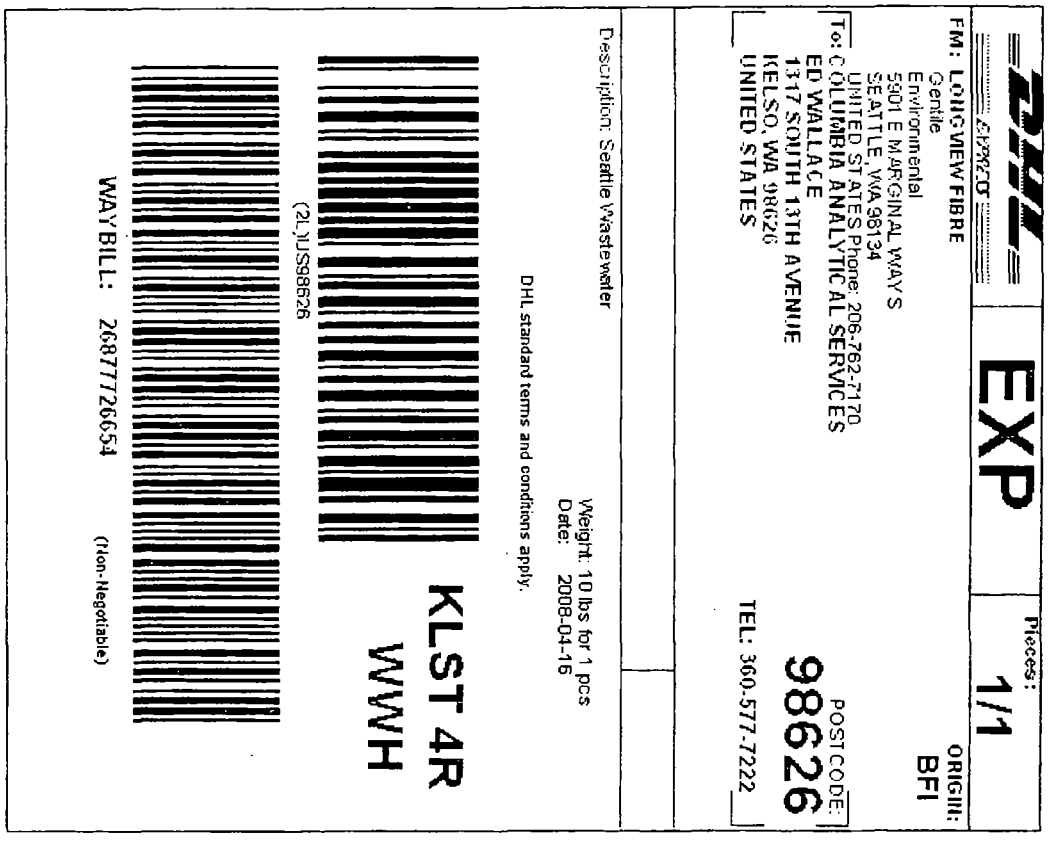
RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature] Date/Time: 4.16.08 1300	Signature ______ Date/Time ______	Signature ______ Date/Time ______	Signature ______ Date/Time ______
Printed Name: LR GENTILE Firm: LFPPI	Printed Name ______ Firm ______	Printed Name ______ Firm ______	Printed Name ______ Firm ______

RCOC #1 06/03

12.3138 v.5
4-16-08

USEPA SF
1256907

LFC002690



Please fold or cut in half

DO NOT PHOTOCOPY

Using a photocopy could delay the delivery of your package and will result in additional shipping charge

For Tracking, please go to www.dhl-usa.com or call 1-800-225-5345

Thank you for shipping with DHL

Create new shipment ▶ View pending shipments Print waybill

LFC002691

Larry R. Gentile

From: Larry R. Gentile [lrgentile@longfibre.com]
Sent: Tuesday, April 15, 2008 12:14 PM
To: 'arnaud.girard@metrokc.gov'
Subject: 1st QTR Wastewater reporting
Attachments: 1st qtr 2008 wastewater.pdf

Look at me, I'm on time!!! :-)
Regards,

Industrial Waste Quarterly Self-Monitoring Report

Mail or FAX to: King County Industrial Waste
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658
Phone 206-263-3000 / FAX 206-263-3001

This form is available at http://dnr.metrokc.gov/wlr/indwaste

Company Name: **Longview Fibre Paper and Packaging Inc.**

Please specify year: 2008 **QUARTER** 1 **Sample Site No.:** A4500 **Permit/DA No.:** 631-02

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	Copper (CU) ▼	▼	▼	Non-Polar fats, oils & grease (FOG) (Record average only)	Settleable Solids (ml/L)	Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)
January									
	1/2/08	G	.109ppm					3160	
	Total volume discharged for January								21060
February									
	Total volume discharged for February								17590
March									
	3/3/08	G	.104ppm					2290	
	3/12/08	G	.114ppm					2410	
	Total volume discharged for March								29960

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent — Date

—▶ Maximum daily flow from this quarter: **3470** **gallons.** Date on which maximum daily flow occurred: **2/26/08**

Due Date: **First Quarter Report is due by April 15 of each year.**

LFC002693

Industrial Waste Quarterly Self-Monitoring Report

Mail or FAX to: King County Industrial Waste
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658
Phone 206-263-3000 / FAX 206-263-3001

This form is available at http://dnr.metrokc.gov/wlr/indwaste

Company Name: **Longview Fibre Paper and Packaging Inc.**

Please specify year: **2008** **QUARTER 1** **Sample Site No.: A4500** **Permit/DA No.: 831-02**

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

Month	Sample Date	Sample Type C (Composite) G (Grab) 2C (Batch)	Copper (CU)			Non-Polar fats, oils & grease (FOG) (Record average only)	Settleable Solids (ml/L)	Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)
January									
	1/2/08	G	.109ppm					3160	
								Total volume discharged for January	21060
February									
								Total volume discharged for February	17590
March									
	3/3/08	G	.104ppm					2290	
	3/12/08	G	.114ppm					2410	
								Total volume discharged for March	29960

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent — Date

→ Maximum daily flow from this quarter: **3470** gallons. Date on which maximum daily flow occurred: **2/26/08**

Due Date: First Quarter Report is due by April 15 of each year.

LFC002694

	CU	ZN
8-Jan	109	251
	164	94
	136.5	**172.5**

8-Feb

8-Mar	104	118		1466600	3/27/2008
			12400	1454200	3/13/2008
	114	118	2410	1451790	3/12/2008
	164	166	9390	1442400	3/7/2008
	482	106	2290	1440110	3/3/2008
	855	240	3470	1436640	2/26/2008
	737	146	17590	1419050	1/30/2008
	409.3333	**149**	9050	1410000	1/25/2008
			-3190	1413190	1/22/2008
			4040	1409150	1/17/2008
			8000	1401150	1/7/2008
			3160	1397990	1/2/2008

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Columbia Analytical Services, Inc.
An Employee - Owned Company

April 3, 2008 Analytical Report for Service Request No: K0802185

Larry Gentile
Longview Fibre Paper & Packaging Inc
5901 East Marginal Way South
Seattle, WA 98124

RE: Seattle Waste Water

Dear Larry:

Enclosed are the results of the samples submitted to our laboratory on March 13, 2008. For your reference, these analyses have been assigned our service request number K0802185.

All analyses were performed according to our laboratory's quality assurance program. Where applicable, the methods cited conform to the Methods Update Rule (effective 4/11/2007), which relates to the use of analytical methods for the drinking water and waste water programs. The test results meet requirements of the NELAC standards. Exceptions are noted in the case narrative report where applicable. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291. You may also contact me via Email at EWallace@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace

Ed Wallace
Project Chemist

EW/lb

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

Columbia Analytical Services, Inc.
Kelso, WA
State Certifications, Accreditations, and Licenses

Program	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Colorado DPHE	-
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-

COLUMBIA ANALYTICAL SERVICES, INC.

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client : Longview Fibre Paper & Packaging Inc
Project Name : Seattle Waste Water
Project No. : NA

Service Request : K0802185

Sample Name :	Lab Code :
Decant #1 3/3	K0802185-001
Decant #1 3/7	K0802185-002
Decant #1 1/2	K0802185-003
Decant #1 1/30	K0802185-004
Method Blank	K0802185-MB

Comments:

Approved By: _____ Date: 4/2/08

00005

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Paper & Packaging Inc	**Service Request :**	K0802185
Project Name :	Seattle Waste Water	**Date Collected :**	01/02-03/07/08
Project No. :	NA	**Date Received :**	03/13/08
Matrix :	Water	**Date Extracted :**	03/18/08

Total Metals
Units: ug/L (ppb)

	Analyte:	Copper	Zinc
	Analysis Method:	6010B	6010B
	Method Reporting Limit:	10	10
	Date Analyzed:	03/19/08	03/19/08
Sample Name	**Lab Code**		
Decant #1 3/3	K0802185-001	104	118
Decant #1 3/7	K0802185-002	2490	241
Decant #1 1/2	K0802185-003	109	251
Decant #1 1/30	K0802185-004	164	94
Method Blank	K0802185-MB	ND	ND

Comments:

00016

Columbia Analytical Services, Inc.
An Employee - Owned Company

CHAIN OF CUSTODY

SR#: K0802185

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

PAGE _____ OF _____ COC #_____

PROJECT NAME: SEATTLE WASTE WATER
PROJECT NUMBER:
PROJECT MANAGER: LARRY GENTILE
COMPANY/ADDRESS: EPPI
5701 EAST MARGINAL WAY S.
CITY/STATE/ZIP: SEATTLE, WA 98134
E-MAIL ADDRESS: lgentile@longfibre.com
PHONE #: 206-762-7170 FAX: 206-767-2442
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐	Volatile Organics 624☐ 8260☐	Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐ ☐Fuel Fingerprint (FIO) ☐NW-HCID Screen	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☐ Congeners☐	Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☐	Metals, Total or Dissolved (See list below)	Cyanide☐	Hex-Chrom☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX 9020☐ AOX 1650☐ 506☐					REMARKS
DECANT #1	3/3/08	4:58PM			1									✓											
DECANT #1	3/7/08	9:10AM			1									✓											
DECANT #1	3/2/08	8:00PM			1									✓											
DECANT #1	3/3/08	8:06PM			1									✓											

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
___ III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results

_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr (Cu) Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V (Zn) Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

JUST NEED REPORT BACK IN TIME TO MEET KING COUNTY DEADLINE

Container Supply Number

7465

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature:	Signature:
Date/Time: 3/12/08 3:14pm	Date/Time: 3/13/08 1030	Date/Time:	Date/Time:
Printed Name: LL GENTILE	Printed Name: [illegible]	Printed Name:	Printed Name:
Firm: EPPI	Firm: CAS	Firm:	Firm:

RCOC #1 06/03

LFC002702

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

PC Ed

Client / Project: Long Fibre Seattle Service Request: K08 2185

Received: 3/13/08 Opened: 3/13/08 By: T Klar

1. Samples were received via? *US Mail* *Fed Ex* *UPS* (DHL) *GH* *GS* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) (Cooler) *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA (N) If yes, how many and where? 1 front
   If present, were custody seals intact? (Y) N If present, were they signed and dated? (Y) N
4. Is shipper's air-bill filed? If not, record air-bill number: _____ NA (Y) N

5. **Temperature of cooler(s) upon receipt (°C):**	3.6			
Temperature Blank (°C):	4.2			
6. If applicable, list Chain of Custody Numbers:				

7. Were custody papers properly filled out (ink, signed, etc.)? NA (Y) N
8. Packing material used. *Inserts* *Baggies* (*Bubble Wrap*) (*Gel Packs*) *Wet Ice* *Sleeves* *Other* _____
9. **Did all bottles arrive in good condition (unbroken)?** *Indicate in the table below.* NA (Y) N
10. Were all sample labels complete (i.e analysis, preservation, etc.)? (Y) N
11. Did all sample labels and tags agree with custody papers? *Indicate in the table below* (Y) N
12. **Were appropriate bottles/containers and volumes received for the tests indicated?** NA (Y) N
13. Were the pH-preserved bottles tested* received at the appropriate pH? *Indicate in the table below* NA (Y) N
14. Were VOA vials and 1631 Mercury bottles received without headspace? *Indicate in the table below.* (NA) Y N
15. **Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?** (NA) Y N
16. Was C12/Res negative? (NA) Y N

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Sample ID	Bottle Count	Bottle Type	Out of Temp	Head-space	Broken	pH	Reagent	Volume added	Reagent Lot Number	Initials

*Does not include all pH preserved sample aliquots received. *See sample receiving SOP (SMO-GEN).*

Additional Notes, Discrepancies, & Resolutions: _____

00018

1317 South 13th Avenue Kelso, Washington 98626 (360) 577-7222 (360) 636-1068 fax

Columbia Analytical Services NC
An Employee - Owned Company

April 4, 2008 Analytical Report for Service Request No: K0802634

Larry Gentile
Longview Fibre Paper & Packaging Inc
5901 East Marginal Way South
Seattle, WA 98124

RE: Seattle Wastewater

Dear Larry:

Enclosed are the results of the rush sample submitted to our laboratory on March 27, 2008. For your reference, these analyses have been assigned our service request number K0802634.

All analyses were performed according to our laboratory's quality assurance program. Where applicable, the methods cited conform to the Methods Update Rule (effective 4/11/2007), which relates to the use of analytical methods for the drinking water and waste water programs. The test results meet requirements of the NELAC standards. Exceptions are noted in the case narrative report where applicable. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291. You may also contact me via Email at EWallace@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace

Ed Wallace
Project Chemist

EW/afs

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
)	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
	The chromatographic fingerprint does not resemble a petroleum product.

Columbia Analytical Services, Inc.
Kelso, WA
State Certifications, Accreditations, and Licenses

Program	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Colorado DPHE	-
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Paper & Packaging Inc	**Service Request :**	K0802634
Project Name :	Seattle Wastewater	**Date Collected :**	03/26/08
Project Number :	NA	**Date Received :**	03/27/08
Sample Matrix :	AQUEOUS LIQUID		

pH

Analysis Method : SM 4500-H+ B
Test Notes :

Units : pH Units
Basis : NA

Sample Name	Lab Code	MRL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Misc Sample	K0802634-006	-	1	03/27/08 13:24	10.45	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

Report By: CSKILLERN

COLUMBIA ANALYTICAL SERVICES, INC.

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client : Longview Fibre Paper & Packaging Inc
Project Name : Seattle Wastewater
Project No. : NA

Service Request : K0802634

Sample Name :	Lab Code :
Decant #1 3/12	K0802634-001
Decant #1 3/14	K0802634-002
Decant #1 3/18	K0802634-003
Decant #1 3/21	K0802634-004
Decant #1 3/21 0830	K0802634-005
Misc Sample	K0802634-006
Method Blank	K0802634-MB

Comments:

Approved By: _____ Date: 4/30/08

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Paper & Packaging Inc	**Service Request :**	K0802634
Project Name :	Seattle Wastewater	**Date Collected :**	03/12/08
Project No. :	NA	**Date Received :**	03/27/08
Matrix :	Water	**Date Extracted :**	04/01/08

Total Metals

Sample Name :	Decant #1 3/12	**Units :**	ug/L (ppb)
Lab Code :	K0802634-001	**Basis :**	NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Copper	6010B	10	04/03/08	114	
Zinc	6010B	10	04/03/08	118	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Paper & Packaging Inc	**Service Request :**	K0802634
Project Name :	Seattle Wastewater	**Date Collected :**	03/14/08
Project No. :	NA	**Date Received :**	03/27/08
Matrix :	Water	**Date Extracted :**	04/01/08

Total Metals

Sample Name :	Decant #1 3/14	**Units :**	ug/L (ppb)
Lab Code :	K0802634-002	**Basis :**	NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Copper	6010B	10	04/03/08	164	
Zinc	6010B	10	04/03/08	166	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Paper & Packaging Inc	**Service Request :**	K0802634
Project Name :	Seattle Wastewater	**Date Collected :**	03/18/08
Project No. :	NA	**Date Received :**	03/27/08
Matrix :	Water	**Date Extracted :**	04/01/08

Total Metals

Sample Name :	Decant #1 3/18	**Units :**	ug/L (ppb)
Lab Code :	K0802634-003	**Basis :**	NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Copper	6010B	10	04/03/08	482	
Zinc	6010B	10	04/03/08	106	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Paper & Packaging Inc	**Service Request :**	K0802634
Project Name :	Seattle Wastewater	**Date Collected :**	03/21/08
Project No. :	NA	**Date Received :**	03/27/08
Matrix :	Water	**Date Extracted :**	04/01/08

Total Metals

Sample Name :	Decant #1 3/21	**Units :**	ug/L (ppb)
Lab Code :	K0802634-004	**Basis :**	NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Copper	6010B	10	04/03/08	855	
Zinc	6010B	10	04/03/08	240	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Paper & Packaging Inc	**Service Request :**	K0802634
Project Name :	Seattle Wastewater	**Date Collected :**	03/21/08
Project No. :	NA	**Date Received :**	03/27/08
Matrix :	Water	**Date Extracted :**	04/01/08

Total Metals

Sample Name :	Decant #1 3/21 0830	**Units :**	ug/L (ppb)
Lab Code :	K0802634-005	**Basis :**	NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Copper	6010B	10	04/03/08	737	
Zinc	6010B	10	04/03/08	146	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Paper & Packaging Inc	**Service Request :**	K0802634
Project Name :	Seattle Wastewater	**Date Collected :**	03/26/08
Project No. :	NA	**Date Received :**	03/27/08
Matrix :	Water	**Date Extracted :**	04/01/08

Total Metals

Sample Name :	Misc Sample	**Units :**	ug/L (ppb)
Lab Code :	K0802634-006	**Basis :**	NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Copper	6010B	50	04/03/08	448000	
Zinc	6010B	50	04/03/08	114000	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Paper & Packaging Inc	**Service Request :**	K0802634
Project Name :	Seattle Wastewater	**Date Collected :**	NA
Project No. :	NA	**Date Received :**	NA
Matrix :	Water	**Date Extracted :**	04/01/08

Total Metals

Sample Name :	Method Blank	**Units :**	ug/L (ppb)
Lab Code :	K0802634-MB	**Basis :**	NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Copper	6010B	10	04/03/08	ND	
Zinc	6010B	10	04/03/08	ND	

Comments:

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CHAIN OF CUSTODY

SR#: X0809634

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PAGE _____ OF _____ COC #_____

PROJECT NAME: SEATTLE WASTEWATER
PROJECT NUMBER:
PROJECT MANAGER: LARRY GENTILE
COMPANY/ADDRESS: LONGVIEW FIBRE PPI
5914 EAST MARGINAL Way South
CITY/STATE/ZIP: SEATTLE WA 98134
E-MAIL ADDRESS: lgentile@longfibre.com
PHONE: 206 762 7170 FAX: 206 767 2442
SAMPLER'S SIGNATURE: [signature]

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐	Volatile Organics 624☐ 8260☐	Hydrocarbons (*see below) Gas☐ 8021☐ BTEX☐ Diesel☐ Oil☐ ☐Fuel Fingerprint (FID) ☐NW-HCID Screen	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☐ Congeners☐	Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☐	Metals, Total or Dissolved (See list below)	Cyanide☐	Hex-Chrom☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX 9020☐ AOX 1650☐ 506☐				REMARKS
DECANT #1	3/12/08	0515			1								X											
DECANT #1	3/14/08	0130			1								X											
DECANT #1	3/18/08	1230			1								X											
DECANT #1	3/21/08	0250			1								X											
DECANT #1	3/21/08	0830			1								X											
MISC SAMPLE	3/26/08	0535			1								X		X									pH

REPORT REQUIREMENTS

X I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
___ III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
X 5 Day
___ Standard (10-15 working days)
___ Provide FAX Results

Requested Report Date _____

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr (Cu) Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V (Zn) Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

Container Supply Number: [illegible]

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature:	Signature:
Date/Time: 3/26/08 1332	Date/Time: 3/27/08 1160	Date/Time:	Date/Time:
Printed Name: L. GENTILE	Printed Name: [illegible]	Printed Name:	Printed Name:
Firm: LFPPI	Firm: [illegible]	Firm:	Firm:

RCOC #1 06/03

14

LFC002717

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

PC ET

Client / Project: LV FIBRE Service Request K08 02634

Received: 3/27/08 Opened: 3/27/08 By: [illegible]

1. Samples were received via? *US Mail* *Fed Ex* *UPS* (*DHL*) *GH* *GS* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) (*Cooler*) *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA (Y) N If yes, how many and where? 15
   If present, were custody seals intact? (Y) N If present, were they signed and dated? (Y) N
4. Is shipper's air-bill filed? If not record air-bill number: _____ NA (Y) N

SHIPPED THIS

5. **Temperature of cooler(s) upon receipt (°C):** 3.3
   Temperature Blank (°C): 2.6
6. If applicable, list Chain of Custody Numbers:
7. Were custody papers properly filled out (ink, signed, etc.)? NA (Y) N
8. Packing material used. *Inserts* *Baggies* *Bubble Wrap* (*Gel Packs*) *Wet Ice* *Sleeves* *Other* _____
9. **Did all bottles arrive in good condition (unbroken)?** *Indicate in the table below.* NA (Y) N
10. Were all sample labels complete (i.e analysis, preservation, etc.)? (Y) N
11. Did all sample labels and tags agree with custody papers? *Indicate in the table below* (Y) N
12. **Were appropriate bottles/containers and volumes received for the tests indicated?** (NA) Y N
13. Were the pH-preserved bottles tested* received at the appropriate pH? *Indicate in the table below* (NA) Y N
14. Were VOA vials and 1631 Mercury bottles received without headspace? *Indicate in the table below.* (NA) Y N
15. **Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?** (NA) Y N
16. Was C12/Res negative? (NA) Y N

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Sample ID	Bottle Count	Bottle Type	Out of Temp	Head-space	Broken	pH	Reagent	Volume added	Reagent Lot Number	Initials

*Does not include all pH preserved sample aliquots received. See sample receiving SOP (SMO-GEN).

Additional Notes, Discrepancies, & Resolutions: _____

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SR#:_____

PAGE _____ OF _____ COC #_____

PROJECT NAME: SEATTLE WASTEWATER
PROJECT NUMBER:
PROJECT MANAGER: LARRY GENTILE
COMPANY/ADDRESS: LONGVIEW FIBRE PPI
590 EAST MARGINAL Way SOUTH
CITY/STATE/ZIP: SEATTLE WA 98134
E-MAIL ADDRESS: lrgentile@longfibre.com
PHONE #: 206 762 7170 FAX: 206 767 2442
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
DECANT #1	3/12/08	0515			1	
DECANT #1	3/14/08	0130			1	
DECANT #1	3/18/08	1230			1	
DECANT #1	3/21/08	0250			1	
DECANT #1	3/21/08	0830			1	
MISC SAMPLE	3/26/08	0835			1	PH

Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐
Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐
Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐
☐ Fuel Fingerprint (FiO) ☐ NW-HCID Screen
Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐
PCB's Aroclors ☐ Congeners ☐
Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐
Chlorophenolics - 8151M PCP ☐
Tri ☐ Tetra ☐
PAHs 8310 ☐ SIM ☐
Metals, Total or Dissolved (See list below)
Cyanide ☐
Hex-Chrom ☐
pH, Cond, Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)
NH_3-N, COD, Total-P, TKN, TOC,
DOC (circle) NO_2+NO_3
TOX 9020 ☐ AOX 1650 ☐ 506 ☐

REPORT REQUIREMENTS

X I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
___ III. Data Validation Report (Includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
X 5 Day
___ Standard (10-15 working days)
___ Provide FAX Results

_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr (Cu) Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V (Zn) Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

Container Supply Number

7465

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature:	Signature:	Signature:
Date/Time: 3/26/08 1330	Date/Time:	Date/Time:	Date/Time:
Printed Name: L GENTILE	Printed Name:	Printed Name:	Printed Name:
Firm: LFPPI	Firm:	Firm:	Firm:

RCOC #1 06/03

LFC002719

CHAIN OF CUSTODY

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SR#: _____ PAGE _____ OF _____ COC # _____

PROJECT NAME: SEATTLE WASTEWATER
PROJECT NUMBER:
PROJECT MANAGER: LARRY GENTILE
COMPANY/ADDRESS: LFPPI
5701 EAST MARGINAL WAY SO
CITY/STATE/ZIP: SEATTLE, WA 98134
E-MAIL ADDRESS: lgentile@longfibre.com
PHONE: 206-762-7170 FAX: 206-767-2442
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Metals, Total or Dissolved (See list below)	REMARKS
DECANT #1	3/3/08	4:58PM			1	✓	
DECANT #4	3/7/08	9:10AM			1	✓	
DECANT #1	1/2/08	8:00PM			1	✓	
DECANT #1	1/3/08	8:04PM			1	✓	

Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐
Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐
Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐
☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen
Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐
PCB's Aroclors ☐ Congeners ☐
Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐
Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐
PAHS 8310 ☐ SIM ☐
Cyanide ☐ Hex-Chrom ☐
pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle) NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3
TOX 9020 ☐ AOX 1650 ☐ 506 ☐

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
___ III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results

Requested Report Date: _____

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr (Cu) Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V (Zn) Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

JUST NEED REPORT BACK IN TIME TO MEET KING COUNTY DEADLINE

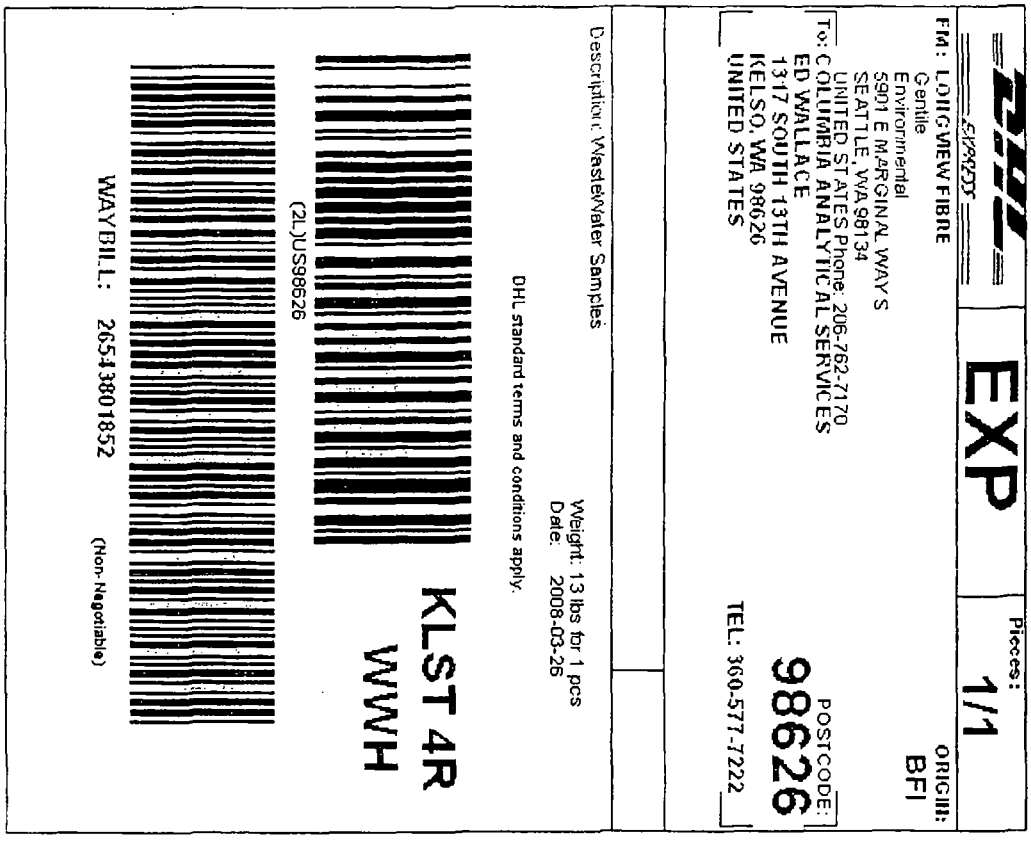
Container Supply Number

7485

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: 3/12/08 3:14PM	Signature / Date/Time	Signature / Date/Time	Signature / Date/Time
Printed Name: LL GENTILE / Firm: LFPPI	Printed Name / Firm	Printed Name / Firm	Printed Name / Firm

RCOC #1 06/03

LFC002720



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Thank you for shipping with DHL

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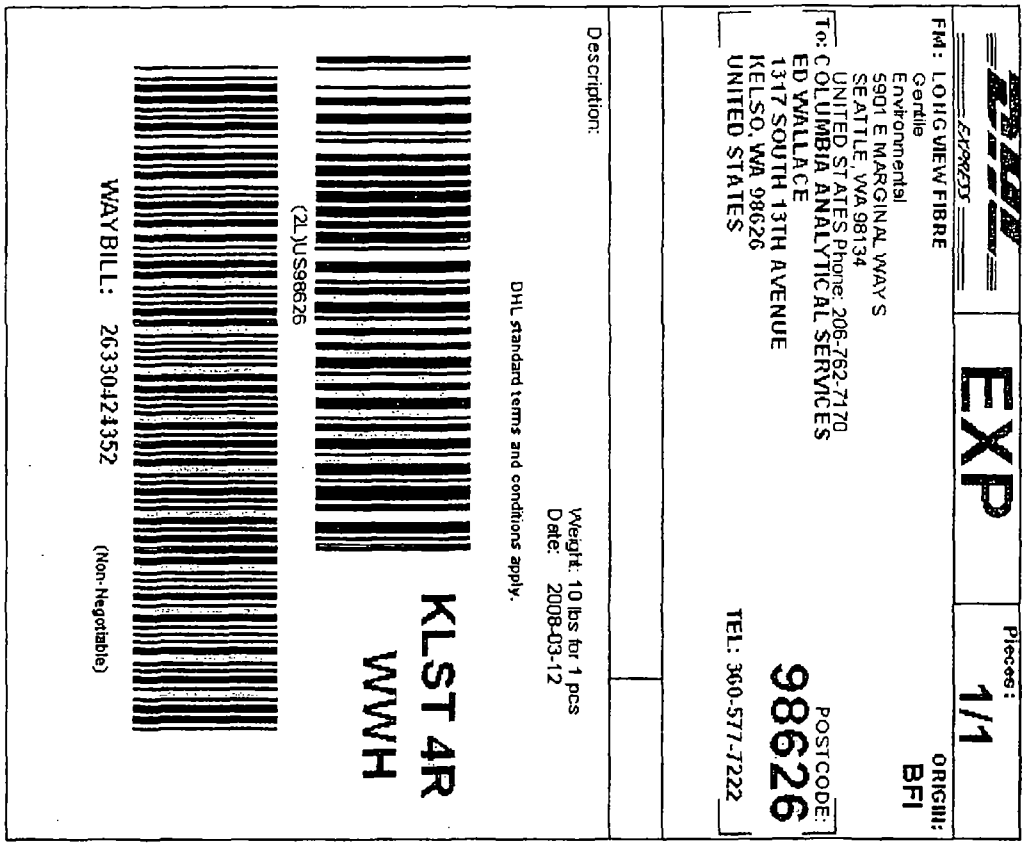

DHL EXPRESS EXP

Pieces: 1/1

ORIGIN: BFI

FM: LONGVIEW FIBRE
Gentile
Environmental
5901 E MARGINAL WAYS
SEATTLE, WA 98134
UNITED STATES Phone: 206-762-7170

To: COLUMBIA ANALYTICAL SERVICES
ED WALLACE
1317 SOUTH 13TH AVENUE
KELSO, WA 98626
UNITED STATES

POSTCODE: 98626

TEL: 360-577-7222

Description:

Weight: 10 lbs for 1 pcs
Date: 2008-03-12

DHL standard terms and conditions apply.

KLST 4R
WWH

(2L)US98626

WAYBILL: 2633042352

(Non-Negotiable)

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Larry R. Gentile

From: Larry R. Gentile [lrgentile@longfibre.com]
Sent: Wednesday, January 16, 2008 8:20 PM
To: 'arnaud.girard@metrokc.gov'
Subject: RE: 4rd quarter 2007waste water sampling
Attachments: 4th qtr 2007 wastewater.pdf

See attached.
Regards,

Industrial Waste Quarterly Self-Monitoring Report

Mail or FAX to: King County Industrial Waste
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658
Phone 206-263-3000 / FAX 206-263-3001

This form is available at http://dnr.metrokc.gov/wlr/indwaste

Company Name: **Longview Fibre Paper and Packaging Inc.**

Please specify year: 2007 QUARTER 4 Sample Site No.: A4500 Permit/DA No.: 631-02

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	Cu ▼	Zn ▼	▼	Non-Polar fats, oils & grease (FOG) (Record average only)	Settleable Solids (ml/L)	Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)
October									
	10/22/07	G	.221ppm	.184ppm				2651	
								Total volume discharged for October	20880
November									
								Total volume discharged for November	18560
December									
	12/27/07	G	.050ppm	.158ppm				3930	
								Total volume discharged for December	26020

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent — Date 1/15/08

→ Maximum daily flow from this quarter: 3930 gallons. Date on which maximum daily flow occurred: 12/27/07

Due Date: Fourth Quarter Report is due by Jan 15 of each year.

1317 South 13th Avenue P.O. Box 479 Kelso, Washington 98626 (360) 577-7222 (360) 636-1068 fax

Columbia Analytical Services INC.
An Employee - Owned Company

January 9, 2008 Analytical Report for Service Request No: K0712193

Larry Gentile
Longview Fibre Paper & Packaging Inc
5901 East Marginal Way South
Seattle, WA 98124

RE: Seattle Stormwater

Dear Larry:

Enclosed are the results of the sample submitted to our laboratory on December 28, 2007. For your reference, these analyses have been assigned our service request number K0712193.

All analyses were performed according to our laboratory's quality assurance program. Where applicable, the methods cited conform to the Methods Update Rule (effective 4/11/2007), which relates to the use of analytical methods for the drinking water and waste water programs. The test results meet requirements of the NELAC standards. Exceptions are noted in the case narrative report where applicable. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291. You may also contact me via Email at EWallace@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace

Ed Wallace
Project Chemist

EW/lb

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

Columbia Analytical Services, Inc.
Kelso, WA
State Certifications, Accreditations, and Licenses

Program	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Colorado DPHE	-
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Paper & Packaging Inc	**Service Request :**	K0712193
Project Name :	Seattle Stormwater	**Date Collected :**	12/27/07
Project Number :	NA	**Date Received :**	12/28/07
Sample Matrix :	WATER		

Turbidity

Analysis Method : 180.1
Test Notes :

Units : NTU
Basis : NA

Sample Name	Lab Code	MRL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Roof Drain	K0712193-001	0.2	1	12/28/08 13:45	2.6	
Method Blank	K0712193-MB	0.2	1	12/28/08 13:45	ND	

Report By:CSKILLERN

COLUMBIA ANALYTICAL SERVICES, INC.

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client : Longview Fibre Paper & Packaging Inc
Project Name : Seattle Stormwater
Project No. : NA

Service Request : K0712193

Sample Name :	Lab Code :
Roof Drain	K0712193-001
Method Blank	K0712193-MB

Comments:

Approved By: _____ Date: 1/28/08

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Paper & Packaging Inc	**Service Request :**	K0712193
Project Name :	Seattle Stormwater	**Date Collected :**	12/27/07
Project No. :	NA	**Date Received :**	12/28/07
Matrix :	Water	**Date Extracted :**	01/02/08

Total Metals
Units: ug/L (ppb)

Analyte:	Zinc
Analysis Method:	6010B
Method Reporting Limit:	10
Date Analyzed:	01/04/08

Sample Name	Lab Code	
Roof Drain	K0712193-001	151
Method Blank	K0712193-MB	ND

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Longview Fibre Paper & Packaging Inc	**Service Request:**	K0712193
Project:	Seattle Stormwater	**Date Collected:**	12/27/2007
Sample Matrix:	Water	**Date Received:**	12/28/2007

Oil and Grease

Sample Name:	Roof Drain	Units:	mg/L (ppm)
Lab Code:	K0712193-001	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Oil and Grease, Total (HEM)	METHOD	1664	5.0	1	1/4/2008	1/8/2008	ND	

Approved By: _____ Date: 01088

ISZ2/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Longview Fibre Paper & Packaging Inc	**Service Request:**	K0712193
Project:	Seattle Stormwater	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Oil and Grease

Sample Name:	Method Blank	Units:	mg/L (ppm)
Lab Code:	K080104-WB	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Oil and Grease, Total (HEM)	METHOD	1664	5.0	1	1/4/2008	1/8/2008	ND	

Approved By: _____ Date: 01/08/08

1S22/020597p

000009

Columbia Analytical Services INC.
An Employee - Owned Company

CHAIN OF CUSTODY

1317 South 13th Ave • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

SR#: K071193 PAGE _____ OF _____ COC #_____

PROJECT NAME: SEATTLE STORMWATER
PROJECT NUMBER:
PROJECT MANAGER: LARRY GENTILE
COMPANY/ADDRESS: LONGVIEW FIBRE PAPER & PACKAGING
5901 EAST MARGINAL WAY So.
CITY/STATE/ZIP: SEATTLE WA 98134
E-MAIL ADDRESS: lrgentile@longfibre.com
PHONE: 206 762 7170 FAX: 206 767 2442
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Oil & Grease/TRPH 1664 HEM ☐	PAHS 8310 ☐ SIM ☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle), NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX 9020 ☐ AOX 1650 ☐ 506 ☐	REMARKS
ROOF DRAIN #1	12/27/07	0945			1	✓				
ROOF DRAIN #2	12/27/07	0945			1		✓			TEST FOR ZINC
ROOF DRAIN #3	12/27/07	0945			1			✓		TEST FOR TURBIDITY

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
___ III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
X 5 Day
___ Standard (10-15 working days)
___ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature:	Signature:	Signature:	Signature:
Date/Time: 12-27-07 1530	Date/Time: 12/28/07	Date/Time:	Date/Time:
Printed Name: L R GENTILE	Printed Name:	Printed Name:	Printed Name:
Firm: LFP&P	Firm:	Firm:	Firm:

RCOC #1 06/03

LFC002734

Columbia Analytical Services, Inc. PC 60
Cooler Receipt and Preservation Form

Client / Project: LV FIBER Service Request K07 12193

Received: 12/28/07 Opened: 12/28/07 By: [signature]

1. Samples were received via? *US Mail* *Fed Ex* *UPS* (*DHL*) *GH* *GS* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) (Cooler) *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA (Y) N If yes, how many and where? 1F
   If present, were custody seals intact? (Y) N If present, were they signed and dated? (Y) N
4. Is shipper's air-bill filed? If not, record air-bill number: _____ NA (Y) N

5. Temperature of cooler(s) upon receipt (°C):	3.1			
Temperature Blank (°C):	2.8			
6. If applicable, list Chain of Custody Numbers:				

7. Were custody papers properly filled out (ink, signed, etc.)? NA (Y) N
8. Packing material used. *Inserts* *Bubble Wrap* *Gel Packs* *Wet Ice* *Sleeves* *Other* _____
9. **Did all bottles arrive in good condition (unbroken)?** *Indicate in the table below.* NA (Y) N
10. Were all sample labels complete (i.e analysis, preservation, etc.)? (Y) N
11. Did all sample labels and tags agree with custody papers? *Indicate in the table below* (Y) N
12. **Were the correct types of bottles used for the tests indicated?** NA (Y) N
13. Were all of the preserved bottles received at the lab with the appropriate pH? *Indicate in the table below* NA (Y) N
14. Were VOA vials and 1631 Mercury bottles checked for absence of air bubbles? *Indicate in the table below.* (NA) Y N
    Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection? (NA) Y N
16. Was C12/Res negative? (NA) Y N

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Sample ID	Bottle Count	Bottle Type	Out of Temp	Head-space	Broken	pH	Reagent	Volume added	Reagent Lot Number	Initials

litional Notes, Discrepancies, & Resolutions: _____

00011

LFC002735

Larry R. Gentile

From: Larry R. Gentile [lrgentile@longfibre.com]
Sent: Saturday, October 20, 2007 8:56 AM
To: arnaud.girard@metrokc.gov
Subject: Emailing: 3rd qtr 2006 wastewater.pdf
Attachments: 3rd qtr 2006 wastewater.pdf

More FYI
I should have held off on the last e-mail. The very next one was in error also. Note that our reported value for Cu of 7.42ppm was, per the analysis, in fact .742ppm.

Getting better all the time!
See attached pdf.
regards,

<<...>>

Larry R. Gentile

From: Larry R. Gentile [lrgentile@longfibre.com]

Sent: Wednesday, November 07, 2007 10:50 AM

To: 'arnaud.girard@metrokc.gov'

Subject: 3rd quarter waste water sampling

Just received an e-mail from CAS indicating that the 3rd quarter grab (taken 9-27-07) will be analysed and the results back to me on Nov. 16. I'm not sure what delays they have other than it may be that time of year. Oddly enough however, i did receive results for a grab taken in October tagged for 4th quarter reporting (taken 10-22). Would you like to see that one first?
Thank you in advance for your patience with me and look forward to your response.
Regards,

Industrial Waste Quarterly Self-Monitoring Report

Mail or FAX to: King County Industrial Waste
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658
Phone 206-263-3000 / FAX 206-263-3001

This form is available at http://dnr.metrokc.gov/wlr/indwaste

Company Name: Longview Fibre Paper and Packaging Inc.

Please specify year: 2007 QUARTER 3 Sample Site No.: A4500 Permit/DA No.: 631-02

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	Cu	Zn		Non-Polar fats, oils & grease (FOG) (Record average only)	Settleable Solids (ml/L)	Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)
July									
								Total volume discharged for July	18543
August									
								Total volume discharged for August	20309
September	9/27/07	G	.143					983	
								Total volume discharged for September	16777

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

11/4/07
Date

Signature of Principal Executive or Authorized Agent

→ Maximum daily flow from this quarter: 3215 gallons. Date on which maximum daily flow occurred: 8/9/07

COLUMBIA ANALYTICAL SERVICES, INC.

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client : Longview Fibre Paper & Packaging Inc
Project Name : Seattle Water Treatment Plant
Project No. : NA

Service Request : K0709843

Sample Name :	Lab Code :
Decant #1	K0709843-001
Method Blank	K0709843-MB

Comments:

Approved By: _____ Date: 11/21/07

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

PC CK

Client / Project: Longview Fibre Service Request K07 09843

Received: 10/22/07 Opened: 10/23/07 By: T Blue

1. Samples were received via? US Mail Fed Ex UPS (DHL) GH GS PDX Courier Hand Delivered
2. Samples were received in: (circle) (Cooler) Box Envelope Other _____ NA
3. Were custody seals on coolers? NA (Y) N If yes, how many and where? 1 front
   If present, were custody seals intact? (Y) N If present, were they signed and dated? (Y) N
4. Is shipper's air-bill filed? If not, record air-bill number: _____ NA (Y) N

5. Temperature of cooler(s) upon receipt (°C): 6.3
   Temperature Blank (°C): 5.0
6. If applicable, list Chain of Custody Numbers:
7. Were custody papers properly filled out (ink, signed, etc.)? NA (Y) N
8. Packing material used. Inserts (Bubble Wrap) ~~Gel Packs~~ Wet Ice Sleeves Other _____
9. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA (Y) N
10. Were all sample labels complete (i.e analysis, preservation, etc.)? (Y) N
11. Did all sample labels and tags agree with custody papers? *Indicate in the table below* (Y) N
12. Were the correct types of bottles used for the tests indicated? NA (Y) N
13. Were all of the preserved bottles received at the lab with the appropriate pH? *Indicate in the table below* NA (Y) N
14. Were VOA vials and 1631 Mercury bottles checked for absence of air bubbles? *Indicate in the table below.* (NA) Y N
15. Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection? (NA) Y N
16. Was Cl2/Res negative? (NA) Y N

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Sample ID	Bottle Count	Bottle Type	Out of Temp	Head-space	Broken	pH	Reagent	Volume added	Reagent Lot Number	Initials

Additional Notes, Discrepancies, & Resolutions: _____

0013

Page 1 of: 1 2

LFC002740

1317 South 13th Avenue P.O. Box 479 Kelso, Washington 98626 (360) 577-7222 (360) 636-1068 fax

Columbia Analytical Services INC.
An Employee - Owned Company

November 23, 2007 Analytical Report for Service Request No: K0709843

Larry Gentile
Longview Fibre Paper & Packaging Inc
5901 East Marginal Way South
Seattle, WA 98124

RE: **Seattle Water Treatment Plant**

Dear Larry:

Enclosed are the results of the samples submitted to our laboratory on October 22, 2007. For your reference, these analyses have been assigned our service request number K0709843.

All analyses were performed according to our laboratory's quality assurance program. Where applicable, the methods cited conform to the Methods Update Rule (effective 4/11/2007), which relates to the use of analytical methods for the drinking water and waste water programs. The test results meet requirements of the NELAC standards. Exceptions are noted in the case narrative report where applicable. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291. You may also contact me via Email at EWallace@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace
Project Chemist

EW/lb

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

Columbia Analytical Services, Inc.
Kelso, WA
State Certifications, Accreditations, and Licenses

Program	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Colorado DPHE	-
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Paper & Packaging Inc	**Service Request :**	K0709843
Project Name :	Seattle Water Treatment Plant	**Date Collected :**	09/27/07
Project No. :	NA	**Date Received :**	10/22/07
Matrix :	Water	**Date Extracted :**	11/01/07

Total Metals
Units: ug/L (ppb)

Analyte:	Copper
Analysis Method:	6010B
Method Reporting Limit:	10
Date Analyzed:	11/02/07

Sample Name	Lab Code	
Decant #1	K0709843-001	143
Method Blank	K0709843-MB	ND

Comments:

Columbia Analytical Services[INC]
An Employee - Owned Company

CHAIN OF CUSTODY

SR#: K0709813

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

PAGE ____ OF ____ COC # ____

PROJECT NAME: SEATTLE WASTEWATER
PROJECT NUMBER:
PROJECT MANAGER: LARRY GENTILE
COMPANY/ADDRESS: 5901 EAST MARGINAL WAY SO
CITY/STATE/ZIP: SEATTLE WA 98134
E-MAIL ADDRESS: lgentile@longfibre.com
PHONE #: 206-762-7170
FAX #:
SAMPLER'S SIGNATURE:

Analysis columns: NUMBER OF CONTAINERS; Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐; Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐; Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐; Fuel Fingerprint (FIQ) ☐ NW-HCID Screen ☐; Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐; PCB's Aroclors ☐ Congeners ☐; Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐; Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐; PAHS 8310 ☐ SIM ☐; Metals, Total or Dissolved (See list below); Cyanide ☐ Hex-Chrom ☐; pH, Cond, Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle); NH3-N, COD, Total-P, TKN, TOC, DOC (circle) NO2+NO3; TOX 9020 ☐ AOX 1650 ☐ 506 ☐; REMARKS

0012

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Metals, Total or Dissolved	REMARKS
Dpoint #1	9/27/07	1430			1	✓	
10-3 0940	10/3/07	0940			1		

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required

___ II. Report Dup., MS, MSD as required

___ III. Data Validation Report (includes all raw data)

___ IV. CLP Deliverable Report

___ V. EDD

INVOICE INFORMATION

P.O. # ____

Bill To: ____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.

___ 5 Day

___ Standard (10-15 working days)

___ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr (Cu) Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY:		RECEIVED BY:		RELINQUISHED BY:		RECEIVED BY:	
Signature [signature]	Date/Time 10/19/07 1130	Signature [signature]	Date/Time 10/22/07 1300	Signature	Date/Time	Signature	Date/Time
Printed Name GENTILE	Firm LFPPI	Printed Name Black	Firm CAS	Printed Name	Firm	Printed Name	Firm

RCOC #1 06/03

LFC002746

Larry R. Gentile

From: Girard, Arnaud [Arnaud.Girard@kingcounty.gov]
Sent: Wednesday, November 14, 2007 1:50 PM
To: Larry R. Gentile
Subject: RE: Wastewater Reporting

I have received your e-mail and your report - you will need to sign the report, update the report with metals data and provide the discharge volume on day metals sample was collected

Arnaud

From: Larry R. Gentile [mailto:lrgentile@longfibre.com]
Sent: Wednesday, November 14, 2007 10:38 AM
To: Girard, Arnaud
Subject: FW: Wastewater Reporting

Just a note to confirm receipt of this e-mail, as i know i am now on a tight timeline.
Please confirm and advise additional needs other than already discussed.
Regards,

From: Larry R. Gentile [mailto:lrgentile@longfibre.com]
Sent: Wednesday, November 14, 2007 7:18 AM
To: 'Girard, Arnaud'
Subject: Wastewater Reporting

Attached is what i have minus the sample results and a signature.
If you need a signature now, please advise. I'll get it and resend. Also advise any other needs in this regard.
Thanks again for your patience and unless otherwise noted, i will send a final backdated signed copy when the results are here.

Larry R. Gentile

From: Larry R. Gentile [lrgentile@longfibre.com]
Sent: Wednesday, November 14, 2007 1:48 PM
To: 'Girard, Arnaud'; 'arnaud.girard@metrokc.gov'
Subject: Wastewater reporting
Attachments: 3rd qtr 2007 wastewater rev a.pdf

Still hadn't heard from you and was getting nervous so i had our manager sign what i had. He is fully up to speed with the delay by CAS on the sample results. As far as i know we are still on for getting the sample results this week and will forward as soon as i get them.
Regards,

Industrial Waste Quarterly Self-Monitoring Report

Mail or FAX to: King County Industrial Waste
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658
Phone 206-263-3000 / FAX 206-263-3001

This form is available at http://dnr.metrokc.gov/wlr/indwaste

Company Name: **Longview Fibre Paper and Packaging Inc.**

Please specify year: 2007 **QUARTER** 2 **Sample Site No.:** A4500 **Permit/DA No.:** 631-02

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	Copper (Cu) ▼	▼	▼	Non-Polar fats, oils & grease (FOG) (Record average only)	Settleable Solids (ml/L)	Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)
April									
								Total volume discharged for April	17320
May	5/2/07	Composite	.037ppm					866	
								Total volume discharged for May	19052
June									
								Total volume discharged for June	18186

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent — Date 5/23/07

→ Maximum daily flow from this quarter: 2619 **gallons.** Date on which maximum daily flow occurred: 5/21/07

Due Date: Second Quarter Report is due by July 15 of each year.

LFC002749

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Paper & Packaging Inc	**Service Request :**	K0703804
Project Name :	Seattle Wastewater	**Date Collected :**	05/02/07
Project No. :	NA	**Date Received :**	05/04/07
Matrix :	Water	**Date Extracted :**	05/12/07

Total Metals
Units: ug/L (ppb)

Analyte:	Copper
EPA Method:	6010B
Method Reporting Limit:	10
Date Analyzed:	05/18/07

Sample Name	Lab Code	
#1 Decanting	K0703804-001	37
Method Blank	K0703804-MB	ND

Comments:

TO

From: "Girard, Arnaud" <Arnaud.Girard@METROKC.GOV>
To: <lrgentile@comcast.net>
Subject: RE:
Date: Tuesday, July 24, 2007 6:48:17 AM

Larry - Self-monitoring reports can be submitted via:

- US Mail @ King County Industrial Waste 130 Nickerson St., Suite 200, Seattle, WA 98109 OR
- fax 206-263-3001 OR
- e-mail (.pdf attachment),

... whichever works best for you.

Thanks

Arnaud

Arnaud Girard
Compliance Investigator
Industrial Waste Program
King County Wastewater Treatment Division
Phone: 206-263-3012 Fax: 206-263-3001
http://dnr.metrokc.gov/wlr/indweste/

FROM

From: lrgentile@comcast.net [mailto:lrgentile@comcast.net]
Sent: Monday, July 23, 2007 6:51 PM
To: Girard, Arnaud
Subject:

Good Afternoon,
I apologize for the delay in submission of the wastewater sampling results. I am still new to this position and have not fully versed myself in all of the procedures and I thank you for your patience in that regard. I can fax the reports to you or I can mail them. Please let me know which you prefer. If you choose mail, please provide a mailing address and I will send them off quickly.
Please respond your earliest convenience.
Regards,
Larry Gentile

9 pages

07/24/2007 09:58 FAX 3605755949

****
*** TX REPORT ***
****

TRANSMISSION OK

TX/RX NO	0324
CONNECTION TEL	912067672442
SUBADDRESS	
CONNECTION ID	LONGVIEW FIBRE -
ST. TIME	07/24 09:58
USAGE T	00'17
PGS. SENT	1
RESULT	OK

07/24/2007 09:56 FAX 3605755949

****
*** TX REPORT ***
****

TRANSMISSION OK

TX/RX NO	0323
CONNECTION TEL	912062633001
SUBADDRESS	
CONNECTION ID	
ST. TIME	07/24 09:55
USAGE T	01'21
PGS. SENT	9
RESULT	OK

ATTN Belton

Comcast Webmail - Email Message

Page 1 of 1

TO

FYI

From: "Girard, Arnaud" <Arnaud.Girard@METROKC.GOV>
To: <irgantle@comcast.net>
Subject: RE:
Date: Tuesday, July 24, 2007 6:48:17 AM

Larry - Self-monitoring reports can be submitted via:

- US Mail @ King County Industrial Waste 130 Nickerson St., Suite 200, Seattle, WA 98109 OR
- fax 206-263-3001 OR
- e-mail (.pdf attachment),

... whichever works best for you.

Thanks

Arnaud

****
*** TX REPORT ***
****

TRANSMISSION OK

TX/RX NO	0323
CONNECTION TEL	912062633001
SUBADDRESS	
CONNECTION ID	
ST. TIME	07/24 09:55
USAGE T	01'21
PGS. SENT	9
RESULT	OK

ATTN Belton

Comcast Webmail - Email Message

TO

FYI

From: "Girard, Arnaud" <Arnaud.Girard@METROKC.GOV>
To: <lrgentile@comcast.net>
Subject: RE:
Date: Tuesday, July 24, 2007 6:48:17 AM

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- e-mail (.pdf attachment),

... whichever works best for you.

Thanks

Arnaud

Arnaud Girard
Compliance Investigator
Industrial Waste Program
King County Wastewater Treatment Division
Phone: 206-263-3012 Fax: 206-263-3001
http://dnr.metrokc.gov/wlr/indwaste/

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To: Girard, Arnaud
Subject:

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1317 South 13th Avenue P.O. Box 479 Kelso, Washington 98626 (360) 577-7222 (360) 636-1068 fax

Columbia Analytical Services INC.
An Employee - Owned Company

June 6, 2007 Analytical Report for Service Request No: K0703804

Mike Anderson
Longview Fibre Paper & Packaging Inc
5901 East Marginal Way South
Seattle, WA 98124

RE: Seattle Wastewater

Dear Mike:

Enclosed are the results of the sample(s) submitted to our laboratory on May 04, 2007. For your reference, these analyses have been assigned our service request number K0703804.

All analyses were performed according to our laboratory's quality assurance program. Where applicable, the methods cited conform to the Methods Update Rule (effective 4/11/2007), which relates to the use of analytical methods for the drinking water and waste water programs. The test results meet requirements of the NELAC standards. Exceptions are noted in the case narrative report where applicable. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291. You may also contact me via Email at EWallace@kelso.caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace

Ed Wallace
Project Chemist

EW/lb

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

Columbia Analytical Services, Inc.
Kelso, WA
State Certifications, Accreditations, and Licenses

Program	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Colorado DPHE	-
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-

COLUMBIA ANALYTICAL SERVICES, INC.

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client : Longview Fibre Paper & Packaging Inc
Project Name : Seattle Wastewater
Project No. : NA

Service Request : K0703804

Sample Name :	Lab Code :
#1 Decanting	K0703804-001
Method Blank	K0703804-MB

Comments:

Approved By: _____ Date: 6/5/07

00005

Columbia Analytical Services INC.
An Employee - Owned Company

CHAIN OF CUSTODY

SR#: 16070 3804

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

PAGE _____ OF _____ COC # _____

PROJECT NAME: SEATTLE WASTE WATER
PROJECT NUMBER:
PROJECT MANAGER: LARRY GENTILE
COMPANY/ADDRESS: 5901 EAST MARGINAL Way S.
CITY/STATE/ZIP: SEATTLE WA 98134
E-MAIL ADDRESS: lgentile@longfibre.com
PHONE # 206-767-7170 FAX # 206-767-2442
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐	Volatile Organics 624☐ 8260☐	Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐	8021☐ BTEX☐	Fuel Fingerprint (F/O)☐ NW-HCID Screen☐	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☐ Congeners☐	Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☐	Metals, Total or Dissolved (See list below)	Cyanide☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle) NH3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	Hex-Chrom☐	TOX 9020☐ AOX 1650☐ 506☐					REMARKS
#1 DEGASTING	5/2/07	1040														✓									

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
___ III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature:	Signature:
Date/Time: 5/2/07 1300	Date/Time: 5/4/07 1028	Date/Time:	Date/Time:
Printed Name: GENTILE	Printed Name: [illegible]	Printed Name:	Printed Name:
Firm: LFP21	Firm: [illegible]	Firm:	Firm:

RCOC #1 06/03

LFC002759

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

PC ED

Client / Project: Seattle Service Request K07 3804

Received: 5/4/07 Opened: 5/4/07 By: TGal

1. Samples were received via? *US Mail* *Fed Ex* *UPS* (*DHL*) *GH* *GS* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) (*Cooler*) *Box* *Envelope* *Other*_____ *NA*
3. Were custody seals on coolers? NA (Y) N If yes, how many and where? 1- sides
   If present, were custody seals intact? (Y) N If present, were they signed and dated? (Y) N
4. Is shipper's air-bill filed? If not, record air-bill number:_____ NA (Y) N

5. **Temperature of cooler(s) upon receipt (°C):** 2.6
   Temperature Blank (°C): 3.9
6. If applicable, list Chain of Custody Numbers:
7. Were custody papers properly filled out (ink, signed, etc.)? NA (Y) N
8. Packing material used. *Inserts* (*Bubble Wrap*) (*Gel Packs*) *Wet Ice* *Sleeves* *Other*_____
9. **Did all bottles arrive in good condition (unbroken)?** *Indicate in the table below.* (Y) N
10. Were all bottle labels complete (i.e analysis, preservation, etc.)? (Y) N
11. Did all bottle labels and tags agree with custody papers? *Indicate in the table below* (Y) N
12. **Were the correct types of bottles used for the tests indicated?** (Y) N
13. Were all of the preserved bottles received at the lab with the appropriate pH? *Indicate in the table below* NA (Y) N
14. Were VOA vials and 1631 Mercury bottles checked for absence of air bubbles? *Indicate in the table below.* (NA) Y N
15. **Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?** (NA) Y N
16. Was C12/Res negative? (NA) Y N

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Sample ID	Bottle Count	Bottle Type	Out of Temp	Head space	Broken	pH	Reagent	Volume added	Reagent Lot Number	Initials

*Additional Notes, Discrepancies, & Resolutions:*_____

00018

From: "Girard, Arnaud" <Arnaud.Girard@METROKC.GOV>
To: <lrgentile@comcast.net>
Subject: RE:
Date: Tuesday, July 24, 2007 6:48:17 AM

Larry - Self-monitoring reports can be submitted via:

- US Mail @ King County Industrial Waste 130 Nickerson St., Suite 200, Seattle, WA 98109 OR
- fax 206-263-3001 OR
- e-mail (.pdf attachment),

... whichever works best for you.

Thanks

Arnaud

Arnaud Girard
Compliance Investigator
Industrial Waste Program
King County Wastewater Treatment Division
Phone: 206-263-3012 Fax: 206-263-3001
http://dnr.metrokc.gov/wlr/indwaste/

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Sent: Monday, July 23, 2007 6:51 PM
To: Girard, Arnaud
Subject:

Good Afternoon,
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Please respond your earliest convenience.
Regards,
Larry Gentile

Larry R. Gentile

From: Larry R. Gentile [lrgentile@longfibre.com]
Sent: Saturday, October 20, 2007 9:13 AM
To: 'arnaud.girard@metrokc.gov'
Subject: Emailing: 1st qtr 2007 wastewater.pdf

Attachments: 1st qtr 2007 wastewater.pdf

1st qtr 2007 wastewater.pdf (7...

rd time's a charm. But this is the last. Note that the reported composite value of 1.36ppm should have been (after adding up the 4 sample values and averaging) .1365ppm.
I am doing my math correctly - i hope! :-) See attached pdf.
As soon as the results for 3rd quarter are back from the lab I will send that too.
I see that our permit is up for renewal in 2008. And though the exp. date is still a year away, what I have come to learn quickly is that in this environmental process, it is a blink of an eye! So my question, when do you suggest I begin the renewal process.
Reply at your convenience.
Thank you and Regards,

Industrial Waste Quarterly Self-Monitoring Report

Mail or FAX to: King County Industrial Waste
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658
Phone 206-263-3000 / FAX 206-263-3001

This form is available at http://dnr.metrokc.gov/wlr/Indwaste

Company Name: Longview Fibre Company

Please specify year: 2007 **QUARTER** 1 **Sample Site No.:** A4500 **Permit/DA No.:** 631-02

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	Copper (Cu) ▼	▼	▼	Non-Polar fats, oils & grease (FOG) (Record average only)	Settleable Solids (ml/L)	Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)
January									
								Total volume discharged for January	29,218
February									
					Should be 1365 gpd				
								Total volume discharged for February	15,566
March	3/8/07	Composite	1.36 ppm					672	
								Total volume discharged for March	25,730

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent — Date: 4/12/07

→ Maximum daily flow from this quarter: 2806 gallons. Date on which maximum daily flow occurred: 1/25/07

Due Date: First Quarter Report is due by April 15 of each year.

LFC002763

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Paper & Packaging Inc	**Service Request :**	K0701934
Project Name :	Seattle Wastewater	**Date Collected :**	03/08/07
Project No. :	NA	**Date Received :**	03/09/07
Matrix :	Water	**Date Extracted :**	03/19/07

Total Metals
Units: ug/L (ppb)

Analyte:	Copper
EPA Method:	6010B
Method Reporting Limit:	10
Date Analyzed:	04/04/07

Sample Name	**Lab Code**	
#1 Decanting	K0701934-001	141
#2 Decanting	K0701934-002	135
#3 Decanting	K0701934-003	136
#4 Decanting	K0701934-004	134
Method Blank	K0701934-MB	ND

Comments:

00096

1317 South 13th Avenue P.O. Box 479 Kelso, Washington 98626 (360) 577-7222 (360) 636-1068 fax

Columbia Analytical Services INC.
An Employee - Owned Company

April 6, 2007 Analytical Report for Service Request No: K0701934

Mike Anderson
Longview Fibre Paper & Packaging Inc
5901 East Marginal Way South
Seattle, WA 98124

RE: Seattle Wastewater

Dear Mike:

Enclosed are the results of the sample(s) submitted to our laboratory on March 09, 2007. For your reference, these analyses have been assigned our service request number K0701934.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards. Exceptions are noted in the case narrative report where applicable. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291. You may also contact me via Email at EWallace@kelso.caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace

Ed Wallace
Project Chemist

EW/lmb

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

Columbia Analytical Services, Inc.
Kelso, WA
State Certifications, Accreditations, and Licenses

Program	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Colorado DPHE	-
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-

COLUMBIA ANALYTICAL SERVICES, INC.

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client : Longview Fibre Paper & Packaging Inc
Project Name : Seattle Wastewater
Project No. : NA

Service Request : K0701934

Sample Name :	Lab Code :
#1 Decanting	K0701934-001
#2 Decanting	K0701934-002
#3 Decanting	K0701934-003
#4 Decanting	K0701934-004
Method Blank	K0701934-MB

Comments:

Approved By: _____ Date: 4/5/07

00015

Columbia Analytical Services
1317 South 13th, Kelso, WA 98626 (360) 577-7222 FAX (360) 636-1068

SR# 16070 0934
PAGE ____ OF ____

Project Name: Seattle Waste Water Project Number: ____
Project Manager: Mike Anderson Company: Longview Fibre Paper
Company/Address: 5901 East Marginal Way S. Phone: 206)762-7170
City, State, Zip: Seattle WA 98134 FAX: 206)767-2442
Sampler's Signature: ____

Sample I.D.	Date	Time	LAB ID	Matrix	Number of Containers	Analysis Requested: Metals (Total or Dissolved)					REMARKS
#1 Decanting	3/8/2007	1:30pm				Cu					
#2 Decanting	3/8/2007	1:30pm				Cu					
#3 Decanting	3/8/2007	1:30pm				Cu					
#4 Decanting	3/8/2007	1:30pm				Cu					

TURNAROUND REQUIREMENTS
____ 24 hr ____ 48 hr ____ 5 day
__X__ Standard (21 days)
____ Provide FAX Preliminary Results
Requested Report Date: ____

Invoice Information
P.O. # ____
Bill to: ____

REPORT REQUIREMENTS
____ I. Routine Report: Results, Method Blank, Surrogate, as required
____ II. Report Dup., MS, MSD as required
____ III. Data Validation Report (includes raw data)
____ IV. CLP Deliverable Report
____ V. EDD

Comments/Special Instructions:
I used four small bottles because I didn't have the correct size. All preservative (tablets) were removed.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature:	Signature:	Signature:	Signature:
Printed Name: Mike Anderson	Printed Name:	Printed Name:	Printed Name:
Firm: Longview Fibre Paper & Packaging	Firm: CAS	Firm:	Firm:
Date/Time: 3/8/07	Date/Time: 3/9/07 1200	Date/Time:	Date/Time:

LFC002770

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

PC 60

Client / Project: FIBRE Service Request K07 01934

Received: 3/9/07 Opened: 3/9/07 By: AL

1. Samples were received via? *US Mail* *Fed Ex* *UPS* (DHL) *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA (Y) N If yes, how many and where? 1F 1B
   If present, were custody seals intact? (Y) N If present, were they signed and dated? (Y) N
4. Is shipper's air-bill filed? If not, record air-bill number: _____ NA (Y) N

5. **Temperature of cooler(s) upon receipt (°C):**	6.1			
Temperature Blank (°C):	6.9			
6. If applicable, list Chain of Custody Numbers:				

7. Were custody papers properly filled out (ink, signed, etc.)? NA (Y) N
8. Packing material used. *Inserts* *Bubble Wrap* *Gel Packs* *Wet Ice* *Sleeves* *Other* _____
9. **Did all bottles arrive in good condition (unbroken)?** *Indicate in the table below.* (Y) N
10. Were all bottle labels complete (i.e analysis, preservation, etc.)? (Y) N
11. Did all bottle labels and tags agree with custody papers? *Indicate in the table below* (Y) N
12. **Were the correct types of bottles used for the tests indicated?** (Y) N
13. Were all of the preserved bottles received at the lab with the appropriate pH? *Indicate in the table below* NA Y N
14. Were VOA vials and 1631 Mercury bottles checked for absence of air bubbles? *Indicate in the table below.* (NA) Y N
15. **Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?** (NA) Y N
16. Was C12/Res negative? (NA) Y N

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Sample ID	Bottle Count	Bottle Type	Out of Temp	Head-space	Broken	pH	Reagent	Volume added	Reagent Lot Number	Initials
ALL Samples	4	COA BOTTLES				✓	HNO_3	1/4mL	CC72029	AL

Additional Notes, Discrepancies, & Resolutions: Metals not affected by over temperature
Exam 3/12/07

00018

Larry R. Gentile

From: Larry R. Gentile [lrgentile@longfibre.com]
Sent: Saturday, October 20. 2007 9:13 AM
To: 'arnaud.girard@metrokc.gov'
Subject: *Emailing:* 1st qtr 2007 wastewater.pdf

Attachments: 1st qtr 2007 wastewater.pdf

1st qtr 2007 wastewater.pdf (7...

rd time's a charm. But this is the last. Note that the reported composite value of 1.36ppm should have been (after adding up the 4 sample values and averaging) .1365ppm.
I am doing my math correctly - i hope! :-) See attached pdf.
As soon as the results for 3rd quarter are back from the lab I will send that too.
I see that our permit is up for renewal in 2008. And though the exp. date is still a year away, what I have come to learn quickly is that in this environmental process, it is a blink of an eye! So my question, when do you suggest I begin the renewal process.
Reply at your convenience.
Thank you and Regards,

Industrial Waste Quarterly Self-Monitoring Report

Mail or FAX to: King County Industrial Waste
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658
Phone 206-263-3000 / FAX 206-263-3001

This form is available at http://dnr.metrokc.gov/wlr/indwaste

Company Name: Longview Fibre Company

Please specify year: 2006 **QUARTER** 4 **Sample Site No.:** A4500 **Permit/DA No.:** 631-02

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	Copper (Cu)			Non-Polar fats, oils & grease (FOG) (Record average only)	Settleable Solids (ml/L)	Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)
October									
								Total volume discharged for October	23890
Novemebr	11/17/05	C	34 ppm					824	
								Total volume discharged for November	20480
December									
								Total volume discharged for December	18060

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

1/24/07
Date

Signature of Principal Executive or Authorized Agent

—► Maximum daily flow from this quarter: **2,890** **gallons.** Date on which maximum daily flow occurred: **10/11/06**

Due Date: **Fourth Quarter Report is due by Jan 15 of each year.**

LFC002773

Larry R. Gentile

From: Larry R. Gentile [lrgentile@longfibre.com]
Sent: Wednesday, October 17, 2007 10:31 AM
To: 'arnaud.girard@metrokc.gov'
Cc: 'Craig A. McKinney'
Subject: Overlimit report from 4th qtr 2006
Attachments: 4thqtr 2006 copper sample result.pdf

In review of records during an audit, it was discovered that the report of copper level overlimit submitted by Mike Anderson back on January 22, 2007 was in error. The report from Columbia Analytical reported a sample result of 39 parts per Billion. When the quarterly report was submitted, the result was reported as .39 parts per Million, when in fact it should have been reported as .039 parts per Million. Either way, we were under the permit limit of 3.0 ppm but felt that you should know.
Attached is a pdf copy of the analysis page indicating the sample result.
Regards,

Subject: Longview Fiber Paper and Packaging
Date: Mon, 22 Jan 2007 11:12:35 -0800
From: Mike Anderson <mjanderson@longfibre.com>
To: Arnaud.Girard@METROKC.GOV

Good morning Arnaud,

Last quarter we reported over limit on our copper level. We immediately, within week of findings had a representative of Beckart Environmental Inc. come into Plant. The representative suggested some possible causes of our being over limit were:

1. The correct dosage of Poly-100 was not added.
2. The 15-30 minutes through mixing/retention time after the Poly V-100 addition was not given.
3. Bad check valve between dirty water collection tank and treatment tank.
4. The batch could have been contaminated by raw water being transferred on top treated water/sludge while the press was still running.

The representative also took samples to have their (Beckart's) lab test copper level.

3.0 ppm ?

The representatives findings are:

1. Copper level was .3ppm (Tested on 10/18/06, non accredited lab.)
2. Found piping from pump to tank across pH probe plugged, and the 3-way actuating valve not working. (Crews were using hand held pH meter during this period of time as they were instructed.)
3. Found decant piping mostly plugged.
4. Found piping from treatment tank to clean water tank mostly plugged.

I also wanted to let you know what we've done to get back into, and remain compliant.

.039

1. Replaced 3-way actuating valve.
2. Taken normal quarterly samples. (Results from Columbia Analytical Services, Inc. taken on November 17th 2006, are .39ppm.)
3. Scheduled PSC in to pump out, and clean all tanks. Including dirty water collection tank, treatment tank, and clean water collection tank. PSC will do on January 29th and 30th.
4. Scheduled Beckart Environmental, Inc. in on January 31st, February 1st, or as long as it takes to replace galvanized piping with PVC piping. Upgrade pH meter, and solenoid for actuating valve.

Sincerely

Mike Anderson
Longview Fibre Paper and Packaging

Mike Anderson <mjanderson@longfibre.com>
General Supervisor
Longview Fibre Co.

1317 South 13th Avenue P.O. Box 479 Kelso, Washington 98626 (360) 577-7222 (360) 636-1068 fax

Columbia Analytical Services INC
An Employee - Owned Company

January 15, 2007 Service Request No: K0700158

Mike Anderson
Longview Fibre Paper & Packaging Inc
5901 East Marginal Way South
Seattle, WA 98124

RE: Seattle Stormwater

Dear Mike:

Enclosed are the results of the sample(s) submitted to our laboratory on January 08, 2007. For your reference, these analyses have been assigned our service request number K0700158.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards. Exceptions are noted in the case narrative report where applicable. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291. You may also contact me via Email at EWallace@kelso.caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace

Ed Wallace
Project Chemist

EW/dj

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

Columbia Analytical Services, Inc.
Kelso, WA
State Certifications, Accreditations, and Licenses

Program	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Colorado DPHE	-
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Longview Fibre Paper & Packaging, Inc.	**Service Request No.:**	K0700158
Project:	Seattle Stormwater	**Date Received:**	1/08/06
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier I data deliverables. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Two water samples were received for analysis at Columbia Analytical Services on 1/08/06. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°Cupon receipt at the laboratory.

General Chemistry Parameters

Turbidity by EPA Method 180.1
Solids, Total Suspended(TSS) by EPA Method 160.2
pH by EPA Method 150.1
The sample was received past the recommended holding time. The analyses were performed as soon as possible after receipt by the laboratory. The data is flagged to indicate the holding time violation for Turbidity and TSS.

Total Metals

No anomalies associated with the analysis of these samples were observed

Diesel Range Organics by EPA Method 8015B

No anomalies associated with the analysis of these samples were observed

Approved by EMW Date 1/15/07

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Paper & Packaging Inc	**Service Request :**	K0700158
Project Name :	Seattle Stormwater	**Date Collected :**	12/05/06
Project Number :	NA	**Date Received :**	01/08/07
Sample Matrix :	WATER		

Turbidity

Units : NTU
Analysis Method : 180.1 Basis : NA
Test Notes :

Sample Name	Lab Code	MRL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
#1,2,3 Roof Drain	K0700158-001	0.2	1	01/08/07 14:40	1.2	X
Method Blank	K0700158-MB	0.2	1	01/08/07 14:40	ND	

Report By:EMihaila

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Paper & Packaging Inc	**Service Request :**	K0700158
Project Name :	Seattle Stormwater	**Date Collected :**	12/05/06
Project Number :	NA	**Date Received :**	01/08/07
Sample Matrix :	WATER		

Solids, Total Suspended (TSS)

Units : mg/L (ppm)
Analysis Method : 160.2 Basis : NA
Test Notes :

Sample Name	Lab Code	MRL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
#1,2,3 Roof Drain	K0700158-001	5	1	01/11/07	7	X
Method Blank	K0700158-MB	5	1	01/11/07	ND	

Report By:EMihaila

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Longview Fibre Paper & Packaging Inc
Project Name : Seattle Stormwater
Project Number : NA
Sample Matrix : WATER

Service Request : K0700158
Date Collected : 12/05/06
Date Received : 01/08/07

pH

Analysis Method : 150.1
Test Notes :

Units : pH UNITS
Basis : NA

Sample Name	Lab Code	MRL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
#1,2,3 Roof Drain	K0700158-001	-	1	01/09/07 16:30	5.21	

Report By:EMihaila

COLUMBIA ANALYTICAL SERVICES, INC.

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client : Longview Fibre Paper & Packaging Inc
Project Name : Seattle Stormwater
Project No. :

Service Request : K0700158

Sample Name :	Lab Code :
#1,2,3 Roof Drain	K0700158-001
#1 Decanting	K0700158-002
Method Blank	K0700158-MB

Comments:

Approved By: _____ Date: 1/12/07

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Paper & Packaging Inc	**Service Request :**	K0700158
Project Name :	Seattle Stormwater	**Date Collected :**	12/05/06
Project No. :		**Date Received :**	01/08/07
Matrix :	Water	**Date Extracted :**	01/08/07

Total Metals

Sample Name :	#1,2,3 Roof Drain	**Units :**	ug/L (ppb)
Lab Code :	K0700158-001	**Basis :**	NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Copper	6010B	10	01/11/07	ND	
Lead	7421	2.0	01/09/07	ND	
Zinc	6010B	10	01/11/07	102	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Paper & Packaging Inc	**Service Request :**	K0700158
Project Name :	Seattle Stormwater	**Date Collected :**	11/17/06
Project No. :		**Date Received :**	01/08/07
Matrix :	Water	**Date Extracted :**	01/08/07

Total Metals

Sample Name :	#1 Decanting	**Units :**	ug/L (ppb)
Lab Code :	K0700158-002	**Basis :**	NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Copper	6010B	10	01/11/07	39	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Paper & Packaging Inc	**Service Request :**	K0700158
Project Name :	Seattle Stormwater	**Date Collected :**	11/17/06
Project No. :		**Date Received :**	01/08/07
Matrix :	Water	**Date Extracted :**	01/08/07

Total Metals

Sample Name :	#1 Decanting	**Units :**	ug/L (ppb)
Lab Code :	K0700158-002	**Basis :**	NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Copper	6010B	10	01/11/07	39	

Comments:

00011

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Paper & Packaging Inc	**Service Request :**	K0700158
Project Name :	Seattle Stormwater	**Date Collected :**	NA
Project No. :		**Date Received :**	NA
Matrix :	Water	**Date Extracted :**	01/08/07

Total Metals

Sample Name :	Method Blank	**Units :**	ug/L (ppb)
Lab Code :	K0700158-MB	**Basis :**	NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Copper	6010B	10	01/11/07	ND	
Lead	7421	2.0	01/09/07	ND	
Zinc	6010B	10	01/11/07	ND	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Longview Fibre Paper & Packaging Inc	**Service Request:**	K0700158
Project:	Seattle Stormwater	**Date Collected:**	12/5/2006
Sample Matrix:	Water	**Date Received:**	1/8/2007

Oil and Grease

Sample Name:	#1,2,3 Roof Drain	Units:	mg/L (ppm)
Lab Code:	K0700158-001	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Oil and Grease, Total (HEM)	METHOD	1664	5.0	1	1/12/2007	1/12/2007	ND	

Approved By: *[signature]* Date: 1/15/07

1S22/020597p

K0700158phe.k=1 - 1 1/15/2007

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Longview Fibre Paper & Packaging Inc	**Service Request:**	K0700158
Project:	Seattle Stormwater	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Oil and Grease

Sample Name:	Method Blank	Units:	mg/L (ppm)
Lab Code:	K070112-WB	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Oil and Grease, Total (HEM)	METHOD	1664	5.0	1	1/12/2007	1/12/2007	ND	

Approved By: Georg Walther Date: 1/15/07

1S22/020597p

Columbia Analytical Services[INC]
An Employee - Owned Company

CHAIN OF CUSTODY

SR#: K0700158

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

PAGE ____ OF ____ COC # ____

PROJECT NAME: Seattle Storm Water / Wastewater
PROJECT NUMBER:
PROJECT MANAGER: Mike Anderson / Longview Fibre
COMPANY/ADDRESS: 5301 East Marginal Way South
CITY/STATE/ZIP: Seattle WA 98134
E-MAIL ADDRESS: manderson@longfibre.com
PHONE: (206) 762-7170
FAX: (206) 767-2442
SAMPLER'S SIGNATURE: [signature]

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐	Volatile Organics 624☐ 8260☐ 8021☐ BTEX☐	Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐	Fuel Fingerprint (FIQ)☐ NW-HCID Screen☐	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☐ Congeners☐	Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☐	Metals, Total or Dissolved (See list below)	Cyanide☐ Hex-Chrom☐	pH, Cond, Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle)	NH3-N, COD, Total-P, TKN, TOC, DOC (circle) NO2+NO3	TOX 9020☐ AOX 1650☐ 506☐					REMARKS
#1 roof drain	12/5/06	11:20am								✓														Test for Zinc as well
#2 roof drain	12/5/06	11:20am													✓									
#3 roof drain	12/5/06	11:20am																						
																	✓							Test for turbidity as well
#1 decanting	11/17/06	1:40pm													✓									

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required

___ II. Report Dup., MS, MSD as required

___ III. Data Validation Report (includes all raw data)

___ IV. CLP Deliverable Report

___ V. EDD

INVOICE INFORMATION

P.O. # ____________

Bill To: ____________

TURNAROUND REQUIREMENTS

___ 24 hr. X 48 hr.

___ 5 Day

___ Standard (10-15 working days)

___ Provide FAX Results

____
Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr (Cu) Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:______ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

1 week RUSH per Ed - TBlack 1/8/07

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature] Date/Time: 1/2/07	Signature: Tracy Black Date/Time: 1/8/07 1012	Signature: Date/Time:	Signature: Date/Time:
Printed Name: Mike Anderson Firm: Longview Fibre	Printed Name: Black Firm: CAS	Printed Name: Firm:	Printed Name: Firm:

RCOC #1 06/03

LFC002791

Columbia Analytical Services Inc. PC ED
Cooler Receipt and Preservation Form

Project/Client long fibre Service Request K07 702158

Cooler received on 1/8/07 and opened on 1/8/07 by TBlack

1.	Were custody seals on outside of coolers?	(Y)	N
	If yes, how many and where? 1-sides		
2.	Were custody seals intact?	(Y)	N
3.	Were signature and date present on the custody seals?	(Y)	N
4.	Is the shipper's airbill available and filed? If no, record airbill number: 6228714842	Y	(N)
5.	COC#		
	Temperature of cooler(s) upon receipt: (°C) 4.3		
	Temperature Blank (°C) 4.1		
	Were samples hand-delivered on the same day as collection?	Y	(N)
6.	Were custody papers properly filled out (ink, signed, etc.)?	(Y)	N
7.	Type of packing material present: gelpacks		
8.	**Did all bottles arrive in good condition (unbroken)?**	(Y)	N
9.	Were all bottle labels complete (i.e analysis, preservation, etc.)?	(Y)	N
10.	Did all bottle labels and tags agree with custody papers?	(Y)	N
11.	**Were the correct types of bottles used for the tests indicated?**	(Y)	N
12.	Were all of the preserved bottles received at the lab with the appropriate pH?	(Y)	N
13.	Were VOA vials checked for absence of air bubbles, and if present, noted below?	~~Y~~	~~N~~
14.	Were the 1631 Mercury bottles checked for absence of air bubbles, and if present, noted below?	~~Y~~	~~N~~
15.	Did the bottles originate from CAS/K or a branch laboratory?	(Y)	N
16.	**Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?**	~~Y~~	~~N~~
17.	Was C12/Res negative?	~~Y~~	N

Explain any discrepancies: _____

RESOLUTION: _____

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

00016

LFC002792

Industrial Waste Quarterly Self-Monitoring Report

Mail or FAX to: King County Industrial Waste
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658
Phone 206-263-3000 / FAX 206-263-3001

This form is available at http://dnr.metrokc.gov/wlr/indwaste

Company Name: Longview Fibre Company

Please specify year: 2006 **QUARTER** 3 **Sample Site No.:** A4500 **Permit/DA No.:** 631-02

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	Copper (Cu)			Non-Polar fats, oils & grease (FOG) (Record average only)	Settleable Solids (ml/L)	Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)
July									
								Total volume discharged for July	24,239
August									
								Total volume discharged for August	22,611
September									
	9/27/06	Grab	7.42ppm					847	
								Total volume discharged for September	21,266

Silver-Id should have been 7.42 ppm

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent — Date 10/10/06

→ Maximum daily flow from this quarter: **2646 gallons.** Date on which maximum daily flow occurred: **7/12/05**

Due Date: **Third Quarter Report is due by October 15 of each year..**

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Paper & Packaging Inc	**Service Request :**	K0608377
Project Name :	Seattle Wastewater	**Date Collected :**	09/27/06
Project No. :		**Date Received :**	09/29/06
Matrix :	Water	**Date Extracted :**	09/29/06

Total Metals
Units: ug/L (ppb)

Analyte:	Copper
EPA Method:	200.7
Method Reporting Limit:	10
Date Analyzed:	10/03/06

Sample Name	**Lab Code**	
#1 Decanting	K0608377-001	742
Method Blank	K0608377-MB	ND

Comments:

00005

1317 South 13th Avenue P.O. Box 479 Kelso, Washington 98626 (360) 577-7222 (360) 636-1068 fax

Columbia Analytical Services, Inc.
An Employee - Owned Company

October 6, 2006 Service Request No: K0608377

Mike Anderson
Longview Fibre Paper & Packaging Inc
5901 East Marginal Way South
Seattle, WA 98124

RE: Seattle Wastewater

Dear Mike:

Enclosed are the results of the sample(s) submitted to our laboratory on September 29, 2006. For your reference, these analyses have been assigned our service request number K0608377.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards. Exceptions are noted in the case narrative report where applicable. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291. You may also contact me via Email at EWallace@kelso.caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace

Ed Wallace
Project Chemist

EW/lmb

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

COLUMBIA ANALYTICAL SERVICES, INC.

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client : Longview Fibre Paper & Packaging Inc
Project Name : Seattle Wastewater
Project No. :

Service Request : K0608377

Sample Name :	Lab Code :
#1 Decanting	K0608377-001
Method Blank	K0608377-MB

Comments:

Approved By: _____ Date: 10/03/06

Columbia Analytical Services, INC.
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CHAIN OF CUSTODY

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

SR#: K0608377 PAGE _____ OF _____ COC #: _____

PROJECT NAME	Seattle Wastewater
PROJECT NUMBER	
PROJECT MANAGER	Mike Anderson
COMPANY/ADDRESS	Longview Fibre Paper + Packaging 5901 East Marginal Way South
CITY/STATE/ZIP	Seattle WA 98134
E-MAIL ADDRESS	manderson@longfibre.com
PHONE / FAX	(206) 762-7170 / (206) 767-2442
SAMPLER'S SIGNATURE	

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐	Volatile Organics 624☐ 8260☐	Hydrocarbons (*see below) Gas☐ 8021☐ BTEX☐	☐ Fuel Fingerprint (FIO) ☐ NW-HCID Screen Diesel☐ Oil☐	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☐ Congeners☐	Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☐	Metals, Total or Dissolved (See list below)	Cyanide☐ Hex-Chrom☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX 9020☐ AOX 1650☐ 506☐					REMARKS
#1 decanting	9/27/06	4pm			1									✓										

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required

___ II. Report Dup., MS, MSD as required

___ III. Data Validation Report (includes all raw data)

___ IV. CLP Deilverable Report

___ V. EDD

INVOICE INFORMATION

P.O. # _____

Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ✓ 48 hr.

____ 5 Day

____ Standard (10-15 working days)

____ Provide FAX Results

_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr (Cu) Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature: 1000	Signature:
Date/Time: 9/27/06 4:30pm	Date/Time: 9/29/06	Date/Time:	Date/Time:
Printed Name: Mike Anderson	Printed Name: [illegible]	Printed Name:	Printed Name:
Firm: Longview Fibre Paper + Packaging	Firm: CAS	Firm:	Firm:

RCOC #1 06/03

LFC002799

Columbia Analytical Services Inc. PC 221

Cooler Receipt and Preservation Form

RUSH

Project Lyondell Packaging Service Request K06 08377

Cooler received on 9/29/06 and opened on 9/29/06 by A. Jirell

1.	Were custody seals on outside of coolers?					(Y)	N
	If yes, how many and where? 1F, 1B						
2.	Were custody seals intact?					(Y)	N
3.	Were signature and date present on the custody seals?					(Y)	N
4.	Is the shipper's airbill available and filed? If no, record airbill number:					(Y)	N
5.	COC#						
	Temperature of cooler(s) upon receipt: (°C)	14.1					
	Temperature Blank: (°C)	18.6					
	Were samples hand delivered on the same day as collection?					Y	(N)
6.	Were custody papers properly filled out (ink, signed, etc.)? 1 COC not signed					Y	(N)
7.	Type of packing material present Thaw Warm gel pks, sleeves						
8.	Did all bottles arrive in good condition (unbroken)?					(Y)	N
9.	Were all bottle labels complete (i.e analysis, preservation, etc.)?					(Y)	N
10.	Did all bottle labels and tags agree with custody papers?					Y	(N)
11.	Were the correct types of bottles used for the tests indicated?					(Y)	N
12.	Were all of the preserved bottles received at the lab with the appropriate pH?					(Y)	N
13.	Were VOA vials checked for absence of air bubbles, and if present, noted below?					~~Y~~	N
14.	Were the 1631 Mercury bottles checked for absence of air bubbles, and if present, noted below?					~~Y~~	~~N~~
15.	Did the bottles originate from CAS/K or a branch laboratory?					(Y) or	(N)
16.	Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?					~~Y~~	N
17.	Was C12/Res negative?					~~Y~~	N

Explain any discrepancies: Added "Roof drain" time of 1510 to COC. Did not rec. COC for Sludge Samples

RESOLUTION:

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

00007

BECKART ENVIRONMENTAL, INC.

BECKART ENVIRONMENTAL LAB REPORT (041)

(For internal use only)

Date Received:	10/18/06	**Sample #:**	06-173-1,2
Date Treated:	10/18/06	**Doc. Name:**	LongSeattleCuF
Distribution:			
Sales Engineer:	Greg O'Brien		
Sales Rep.:			
	Following results found based on the sample received.		
Client:	**Longview Fiber**		
Location:	Seattle, WA		
Reason for testing:	Troubleshoot-Copper compliance issues		
Industry / Type of wastewater:	Corrugator		
Volume:	5400 Gallons per Day		
Discharge Requirements:	Parameter / Limit (mg/l) / Raw (mg/l) Copper / 0.3 / 140		
Appearance:	06-173-1 (raw): dark green liquid 06-173-2 (Poly-V 100 sample) light green liquid		
Initial pH:	06-173-1: 9.3		06.173-2: 11.2

CHEMISTRY REQUIRED FOR 100 ML SAMPLE

Dilution Required: None

Chemical used-	*Volume (ml) per 100ml sample*	*pH*	*COMMENTS*
PolyMac 2-4619	0.4	6.0	21.6 gal.
Caustic @ 25%	0.15	8.0	
Poly-V 100	0.05	8.5	**2.7 gal. Mix 20 minutes**
Polymer B-40 + @ 0.5%	1.5		
Final pH	8.4		
Appearance of Treated Water:	*Clarity: 9.5-10, clear, pink tint		
Testing on Treated Water:	Parameter / Concentration (mg/l) Copper / 0.03 Copper (using 06-173-2) / 0.03		
Testing on Sludge:	19% Wet sludge as filtered by volume. Floc: settles Drainage: good		

Comments:

*Clarity is based on a scale of 1-10, 10 being of clarity similar to that of potable water.

- The suspect Poly-V 100 seems to be active based on copper test results. The specific gravity (1.18) and pH (11.2) are within the allowable range.
- We likely causes of the elevated copper reading of approximately 7 mg/L are as follows:

1. The correct dosage of Poly-V 100 was not added (correct dosage can be verified visuallay by tote level and noted on treatment log sheet by operator. The raw water copper level of 140 mg/L is much greater than the level of 53 mg/L tested

approximately one year ago. This level should be periodically tested to ensure the Poly V-100 dosage is proportional.

2. The pH was not at the optimal pH of ~8.0, before the Poly V-100 addition.
3. The 15-30 minutes thorough mixing/retention time after the Poly-V 100 addition was not given.
4. The batch could have been contaminated by raw water being transferred on top of treated water/sludge while the filter press was still running. The mixture of some high copper level raw water would skew the result high, while not having a dramatic effect on the appearance of the treated water.

5. Bad check valve let water from treatment tank siphon back through piping ???

Tested Pump V-100 OK

- Found piping from pump to tank across pH probe completly plugged, ~~ds~~ 3-way actuating valve not working
- Found decant piping ~~em~~ plugged
- Found piping from treatment tank to CW tank mostly plugged

Larry R. Gentile

From: Larry R. Gentile [lrgentile@longfibre.com]
Sent: Saturday, October 20, 2007 8:56 AM
To: arnaud.girard@metrokc.gov
Subject: Emailing: 3rd qtr 2006 wastewater.pdf
Attachments: 3rd qtr 2006 wastewater.pdf

More FYI
I should have held off on the last e-mail. The very next one was in error also. Note that our reported value for Cu of 7.42ppm was, per the analysis, in fact .742ppm.

Getting better all the time!
See attached pdf.
regards,

<<...>>

1317 South 13th Avenue P.O. Box 479 Kelso, Washington 98626 (360) 577-7222 (360) 636-1068 fax

Columbia Analytical Services INC.
An Employee - Owned Company

October 6, 2006 Service Request No: K0608377

Mike Anderson
Longview Fibre Paper & Packaging Inc
5901 East Marginal Way South
Seattle, WA 98124

RE: Seattle Wastewater

Dear Mike:

Enclosed are the results of the sample(s) submitted to our laboratory on September 29, 2006. For your reference, these analyses have been assigned our service request number K0608377.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards. Exceptions are noted in the case narrative report where applicable. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291. You may also contact me via Email at EWallace@kelso.caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace

Ed Wallace
Project Chemist

EW/lmb

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

00002

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater then or equal to the MDL.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

COLUMBIA ANALYTICAL SERVICES, INC.

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client : Longview Fibre Paper & Packaging Inc
Project Name : Seattle Wastewater
Project No. :

Service Request : K0608377

Sample Name :	Lab Code :
#1 Decanting	K0608377-001
Method Blank	K0608377-MB

Comments:

Approved By: _____ Date: 10/03/06

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Paper & Packaging Inc	**Service Request :**	K0608377
Project Name :	Seattle Wastewater	**Date Collected :**	09/27/06
Project No. :		**Date Received :**	09/29/06
Matrix :	Water	**Date Extracted :**	09/29/06

Total Metals
Units: ug/L (ppb)

Analyte:	Copper
EPA Method:	200.7
Method Reporting Limit:	10
Date Analyzed:	10/03/06

Sample Name	Lab Code	
#1 Decanting	K0608377-001	742
Method Blank	K0608377-MB	ND

Comments:

00005

Columbia Analytical Services, Inc.
An Employee - Owned Company

CHAIN OF CUSTODY

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

SR#: K0608377 PAGE _____ OF _____ COC #: 9

PROJECT NAME: Seattle Wastewater
PROJECT NUMBER:
PROJECT MANAGER: Mike Anderson
COMPANY/ADDRESS: Longview Fibre Paper & Packaging
5901 East Marginal Way South
CITY/STATE/ZIP: Seattle WA 98134
E-MAIL ADDRESS: mjanderson@longfibre.com
PHONE: 206) 762-7170 FAX: 206) 767-2442
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐	Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐	Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐ ☐ Fuel Fingerprint (FIO) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐	PCB's Aroclors ☐ Congeners ☐	Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐	Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐	PAHs 8310 ☐ SIM ☐	Metals, Total or Dissolved (See list below)	Cyanide ☐	Hex-Chrom ☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX 9020 ☐ AOX 1650 ☐ 506 ☐					REMARKS
EF1 decanting	9/27/06	4pm			1								✓												

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
___ III. Data Validation Report (Includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ✓ 48 hr.
____ 5 Day
____ Standard (10-15 working days)
____ Provide FAX Results

_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr (Cu) Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY:		RECEIVED BY:		RELINQUISHED BY:		RECEIVED BY:	
Signature:	Date/Time: 9/27/06 4:30pm	Signature:	Date/Time: 9/29/06	Signature:	Date/Time: 1000	Signature:	Date/Time:
Printed Name: Mike Anderson	Firm: Longview Fibre Paper - Packaging	Printed Name:	Firm: NCAS	Printed Name:	Firm:	Printed Name:	Firm:

LFC002809

Columbia Analytical Services Inc. PC 221

RUSH Cooler Receipt and Preservation Form

Project LV ... Packaging Service Request K06 08327

Cooler received on 9/29/06 and opened on 9/29/06 by A. Jirell

		Y	N
1.	Were custody seals on outside of coolers? If yes, how many and where? 1F, 1B	(Y)	N
2.	Were custody seals intact?	(Y)	N
3.	Were signature and date present on the custody seals?	(Y)	N
4.	Is the shipper's airbill available and filed? If no, record airbill number:	(Y)	N
5.	COC#		
	Temperature of cooler(s) upon receipt: (°C) 14.1		
	Temperature Blank: (°C) 13.6		
	Were samples hand delivered on the same day as collection?	Y	(N)
6.	Were custody papers properly filled out (ink, signed, etc.)? 1 COC not signed	Y	(N)
7.	Type of packing material present thaw warm gel pks, sleeves		
8.	Did all bottles arrive in good condition (unbroken)?	(Y)	N
9.	Were all bottle labels complete (i.e analysis, preservation, etc.)?	(Y)	N
10.	Did all bottle labels and tags agree with custody papers?	Y	(N)
11.	Were the correct types of bottles used for the tests indicated?	(Y)	N
12.	Were all of the preserved bottles received at the lab with the appropriate pH?	(Y)	N
13.	Were VOA vials checked for absence of air bubbles, and if present, noted below?	~~Y~~	~~N~~
14.	Were the 1631 Mercury bottles checked for absence of air bubbles, and if present, noted below?	~~Y~~	~~N~~
15.	Did the bottles originate from CAS/K or a branch laboratory?	(Y) +	(N)
16.	Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?	~~Y~~	~~N~~
17.	Was Cl2/Res negative?	~~Y~~	~~N~~

Explain any discrepancies: Added "Roof drain" time of 1510 to COC. Did not rec. COC for Sludge Samples

RESOLUTION:

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

Seattle Water Treatment Sample Log

Date: 9/27/06

Any oil sheen present? No

Any odor present? No

Any noticeable turbidity? None

Color: ~~Orange~~ Orange tint - (light)

Clean water pH: 7.9

Larry R. Gentile

From: Larry R. Gentile [lrgentile@longfibre.com]
Sent: Saturday, October 20, 2007 8:43 AM
To: 'arnaud.girard@metrokc.gov'
Subject: 2nd Quarter 2006 Wastewater results
Attachments: 2nd qtr 2006 wastewater.pdf

FYI
I am in the process of reviewing past documents to better familiarize myself with the project; and as I find errors, I will report them to you on a case basis.
In the 2nd qtr 2006, Cu was reported as **1.14ppm** when in fact it should have been **.114ppm**
See attached pdf.
Regards,

Industrial Waste Quarterly Self-Monitoring Report

Mail or FAX to: King County Industrial Waste
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658
Phone 206-263-3000 / FAX 206-263-3001

This form is available at http://dnr.metrokc.gov/wlr/indwaste

Company Name: Longview Fibre Company

Please specify year: 2006 QUARTER 2 Sample Site No.: A4500 Permit/DA No.: 631-02

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	Copper (Cu)			Non-Polar fats, oils & grease (FOG) (Record average only)	Settleable Solids (ml/L)	Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)
April									
	Total volume discharged for April								27310
May									
	Total volume discharged for May								21340
June	6/12/06	Composite	1.14ppm					1364	
	Total volume discharged for June								32510

Should be .114

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

7-21-06
Date

Signature of Principal Executive or Authorized Agent

→ Maximum daily flow from this quarter: 4379 gallons. Date on which maximum daily flow occurred: 3/22/05

Due Date: Second Quarter Report is due by July 15 of each year.

LFC002813

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Paper and Packaging Inc.	**Service Request :**	K0604838
Project Name :	Seattle Water Treatment Plant	**Date Collected :**	06/12/06
Project No. :	NA	**Date Received :**	06/14/06
Matrix :	Water	**Date Extracted :**	06/14/06

Total Metals
Units: ug/L (ppb)

Analyte:	Copper
EPA Method:	200.7
Method Reporting Limit:	20
Date Analyzed:	06/15/06

Sample Name	Lab Code	
#1 Decanting	K0604838-001	114
Method Blank	K0604838-MB	ND

Comments:

1317 South 13th Avenue P.O. Box 479 Kelso, Washington 98626 (360) 577-7222 (360) 636-1068 fax

Columbia Analytical Services INC
An Employee - Owned Company

June 19, 2006 Service Request No: K0604838

Mike Anderson
Longview Fibre Paper and Packaging Inc
5901 East Marginal Way South
Seattle, WA 98124

RE: Seattle Water Treatment Plant

Dear Mike:

Enclosed are the results of the rush sample(s) submitted to our laboratory on June 14, 2006. For your reference, these analyses have been assigned our service request number K0604838.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace
Project Chemist

EW/cb

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

COLUMBIA ANALYTICAL SERVICES, INC.

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client : Longview Fibre Paper and Packaging Inc.
Project Name : Seattle Water Treatment Plant
Project No. : NA

Service Request : K0604838

Sample Name :	Lab Code :
#1 Decanting	K0604838-001
Method Blank	K0604838-MB

Comments:

Approved By: _____ Date: 6/16/06

Columbia Analytical Services INC
An Employee - Owned Company

CHAIN OF CUSTODY

SR#: K0604838

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

PAGE _____ OF _____ COC #_____

PROJECT NAME: Seattle Wastewater
PROJECT NUMBER:
PROJECT MANAGER: Mike Anderson
COMPANY/ADDRESS: Longview Fibre Paper + Packaging 5301 East Marginal Way South
CITY/STATE/ZIP: Seattle WA 98134
E-MAIL ADDRESS: manderson@longfibre.com
PHONE #: (206) 762-7170 FAX #: (206) 767-2442
SAMPLER'S SIGNATURE: [signature]

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐	Volatile Organics 624☐ 8260☐	Hydrocarbons (*see below) Gas☐ 8021☐ BTEX☐ Diesel☐ Oil☐ ☐Fuel Fingerprint (FIO) ☐NW-HCID Screen	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☐ Congeners☐	Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHs 8310☐ SIM☐	Metals, Total or Dissolved (See list below)	Cyanide☐	Hex-Chrom☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle) NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX 9020☐ AOX 1650☐ 506☐					REMARKS
#1 decanting	5/12/06	9:45am			1								✓												

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
___ III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ✓ 48 hr.
____ 5 Day
____ Standard (10-15 working days)
____ Provide FAX Results

_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr (Cu) Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature	Signature
Date/Time: 6/12/06 10:00	Date/Time: 6/14/06 1000	Date/Time	Date/Time
Printed Name: Mike Anderson	Printed Name	Printed Name	Printed Name
Firm: Longview Fibre Paper + Packaging	Firm: CAS	Firm	Firm

RCOC #1 06/03

LFC002819

Columbia Analytical Services Inc. PC ☑
Cooler Receipt and Preservation Form

Project/Client White Service Request K06 04838

Cooler received on 6/14/06 and opened on 6/14/06 by [redacted]

1.	Were custody seals on outside of coolers?					Y	(N)
	If yes, how many and where?						
2.	Were custody seals intact?					Y	(N)
3.	Were signature and date present on the custody seals?					Y	(N)
4.	Is the shipper's airbill available and filed? If no, record airbill number: 5 255 0487 4411					Y	(N)
5.	COC#						
	Temperature of cooler(s) upon receipt: (°C)	2.6					
	Temperature Blank: (°C)	4.5					
	Were samples hand delivered on the same day as collection?					Y	(N)
6.	Were custody papers properly filled out (ink, signed, etc.)?					(Y)	N
7.	Type of packing material present	gel packs					
8.	**Did all bottles arrive in good condition (unbroken)?**					(Y)	N
9.	Were all bottle labels complete (i.e analysis, preservation, etc.)?					(Y)	N
10.	Did all bottle labels and tags agree with custody papers?					(Y)	N
11.	**Were the correct types of bottles used for the tests indicated?**					(Y)	N
12.	Were all of the preserved bottles received at the lab with the appropriate pH?					(Y)	N
13.	Were VOA vials checked for absence of air bubbles, and if present, noted below?					Y	N
14.	Were the 1631 Mercury bottles checked for absence of air bubbles, and if present, noted below?					Y	N
15.	Did the bottles originate from CAS/K or a branch laboratory?					(Y)	N
16.	**Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?**					~~Y~~	~~N~~
17.	Was C12/Res negative?					~~Y~~	~~N~~

Explain any discrepancies: _____

RESOLUTION: _____

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

0007

Seattle Water Treatment Sample Log

Date: 6/12/06

Any oil sheen present? None

Any odor present? No

Any noticeable turbidity? No

Color: Orange/redish tint

Clean water pH: 7.6

Larry R. Gentile

From: Larry R. Gentile [lrgentile@longfibre.com]
Sent: Saturday, October 20, 2007 8:43 AM
To: 'arnaud.girard@metrokc.gov'
Subject: 2nd Quarter 2006 Wastewater results
Attachments: 2nd qtr 2006 wastewater.pdf

FYI
I am in the process of reviewing past documents to better familiarize myself with the project; and as I find errors, I will report them to you on a case basis.
In the 2nd qtr 2006, Cu was reported as **1.14ppm** when in fact it should have been **.114ppm**
See attached pdf.
Regards,

Industrial Waste Quarterly Self-Monitoring Report

Mail or FAX to: King County Industrial Waste
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658
Phone 206-263-3000 / FAX 206-263-3001

This form is available at http://dnr.metrokc.gov/wlr/indwaste

Company Name: Longview Fibre Company

Please specify year: 2006 **QUARTER** 1 **Sample Site No.:** A4500 **Permit/DA No.:** 631-02

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	Copper (Cu) ▼	▼	▼	Non-Polar fats, oils & grease (FOG) (Record average only)	Settleable Solids (ml/L)	Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)
January									
								Total volume discharged for January	30,100
February									
								Total volume discharged for February	24,050
March	3/8/06	Composite	1.94 ppm					400	
								Total volume discharged for March	27,310

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent — Date 4-26-06

→ Maximum daily flow from this quarter: 3530 **gallons.** Date on which maximum daily flow occurred: 1/26/06

Due Date: **First Quarter Report is due by April 15 of each year.**

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Paper and Packaging Inc	**Service Request :**	K0601918
Project Name :	Seattle Wastewater	**Date Collected :**	03/08/06
Project No. :		**Date Received :**	03/10/06
Matrix :	Water	**Date Extracted :**	03/10/06

Total Metals
Units: ug/L (ppb)

Analyte:	Copper
EPA Method:	6010B
Method Reporting Limit:	10
Date Analyzed:	03/13/06

Sample Name	**Lab Code**	
#1 decanting	K0601918-001	1940
Method Blank	K0601918-MB	ND

Comments:

1317 South 13th Avenue P.O. Box 479 Kelso, Washington 98626 (360) 577-7222 ph (360) 636-1068 fax

Columbia Analytical Services, Inc.
An Employee - Owned Company

March 15, 2006 Service Request No: K0601918

Mike Anderson
Longview Fibre Paper and Packaging Inc
5901 East Marginal Way South
Seattle, WA 98124

RE: Seattle Wastewater

Dear Mike:

Enclosed are the results of the sample(s) submitted to our laboratory on March 10, 2006. For your reference, these analyses have been assigned our service request number K0601918.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291.

Respectfully submitted,

Columbia Analytical Services, Inc.

Lynda H for
Ed Wallace
Project Chemist

EW/jeb

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

COLUMBIA ANALYTICAL SERVICES, INC.

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client : Longview Fibre Paper and Packaging Inc
Project Name : Seattle Wastewater
Project No. :

Service Request : K0601918

Sample Name :	Lab Code :
#1 decanting	K0601918-001
Method Blank	K0601918-MB

Comments:

Approved By: _____ Date: 03/13/06

00004

Columbia Analytical Services INC.
An Employee - Owned Company

CHAIN OF CUSTODY

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

SR#: K0601918

PAGE _____ OF _____ COC #_____

PROJECT NAME: Seattle Wastewater
PROJECT NUMBER:
PROJECT MANAGER: Mike Anderson
COMPANY/ADDRESS: Longview Fibre Paper + Packaging
5401 East Marginal Way South
CITY/STATE/ZIP: Seattle WA
E-MAIL ADDRESS: Manderson@longfibre.com
PHONE #: 206) 762-7170 FAX #: 206) 767-2442
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐	Volatile Organics 624☐ 8260☐	Hydrocarbons (*see below) Gas☐	8021☐ BTEX☐ Diesel☐ Oil☐	Fuel Fingerprint (FIQ) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM☐	1664 SGT☐	PCB's Aroclors☐	Congeners☐	Pesticides/Herbicides 608☐	8081A☐ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHs 8310☐ SIM☐	Metals, Total or Dissolved (See list below)	Cyanide☐	Hex-Chrom☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX 9020☐ AOX 1650☐ 506☐					REMARKS
#1 decanting	7/8/06	3:35			1														✓											9000

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
___ III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ✓ 48 hr.
___ 5 Day
___ Standard (10-15 working days)
___ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr (Cu) Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY:		RECEIVED BY:		RELINQUISHED BY:		RECEIVED BY:	
Signature:	Date/Time: 7/8/06 4:45 pm	Signature: Tracy Blank	Date/Time: 7/10/06 1000	Signature:	Date/Time:	Signature:	Date/Time:
Printed Name: Mike Anderson	Firm: Longview Paper + Pkg	Printed Name: Blank	Firm: ARS	Printed Name:	Firm:	Printed Name:	Firm:

RCOC #1 06/03

LFC002829

Columbia Analytical Services Inc.
Cooler Receipt and Preservation Form

PC Ed W.

Project/Client Longview fibre Service Request K06 1918

Cooler received on 3/10/06 and opened on 3/10/06 by TBlack

1.	Were custody seals on outside of coolers?	(Y)	N
	If yes, how many and where? front		
2.	Were custody seals intact?	(Y)	N
3.	Were signature and date present on the custody seals?	(Y)	N
4.	Is the shipper's airbill available and filed? If no, record airbill number:	(Y)	N
5.	COC#		
	Temperature of cooler(s) upon receipt: (°C) 1.1		
	Temperature Blank: (°C) 2.3		
	Were samples hand delivered on the same day as collection?	(Y)	N
6.	Were custody papers properly filled out (ink, signed, etc.)?	(Y)	N
7.	Type of packing material present gel packs		
8.	**Did all bottles arrive in good condition (unbroken)?**	(Y)	N
9.	Were all bottle labels complete (i.e analysis, preservation, etc.)?	(Y)	N
10.	Did all bottle labels and tags agree with custody papers?	(Y)	N
11.	**Were the correct types of bottles used for the tests indicated?**	(Y)	N
12.	Were all of the preserved bottles received at the lab with the appropriate pH?	(Y)	N
13.	Were VOA vials checked for absence of air bubbles, and if present, noted below?	Y	N
14.	Were the 1631 Mercury bottles checked for absence of air bubbles, and if present, noted below?	Y	N
15.	Did the bottles originate from CAS/K or a branch laboratory?	(Y)	N
16.	**Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?**	Y	N
17.	Was C12/Res negative?	Y	N

Explain any discrepancies: _____

RESOLUTION: _____

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

00007

LFC002830

Seattle Water Treatment Sample Log

Date: 3/8/06

Any oil sheen present? None

Any odor present? None

Any noticeable turbidity? No

Color: Orange tint

Clean water pH: 7.2

Industrial Waste Quarterly Self-Monitoring Report

Mail or FAX to: King County Industrial Waste
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658
Phone 206-263-3000 / FAX 206-263-3001

This form is available at http://dnr.metrokc.gov/wlr/indwaste

Company Name: Longview Fibre Company

Please specify year: 2005 QUARTER 4 Sample Site No.: A4500 Permit/DA No.: 631-02

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)				Non-Polar fats, oils & grease (FOG) (Record average only)	Settleable Solids (ml/L)	Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)
October									
	Total volume discharged for October								42,650
Novemebr	11/14/05	C						2,130	
	Total volume discharged for November								25,930
December									
	Total volume discharged for December								29,800

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

1-6-06
Date

Signature of Principal Executive or Authorized Agent

→ Maximum daily flow from this quarter: 3,430 gallons. Date on which maximum daily flow occurred: 10/28/05

Due Date: Fourth Quarter Report is due by Jan 15 of each year.

LFC002832

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Company	**Service Request :**	K0505844
Project Name :	Seattle Wastewater	**Date Collected :**	11/14/05
Project No. :		**Date Received :**	11/15/05
Matrix :	Water	**Date Extracted :**	11/21/05

Total Metals
Units: ug/L (ppb)

Analyte:	Copper
EPA Method:	200.7
Method Reporting Limit:	10
Date Analyzed:	11/29/05

Sample Name	Lab Code	
#1 Decanting (composite sam	K0505844-001	1010
Method Blank	K0505844-MB	ND

Comments:

00005

LFC002833

1317 South 13th Avenue P.O. Box 479 Kelso, Washington 98626 (360) 577-7222 (360) 636-1068 fax

Columbia Analytical Services INC.
An Employee - Owned Company

December 1, 2005 Service Request No: K0505844

Mike Anderson
Longview Fibre Company
5901 East Marginal Way South
Seattle, WA 98124

RE: Seattle Wastewater

Dear Mike:

Enclosed are the results of the sample(s) submitted to our laboratory on November 15, 2005. For your reference, these analyses have been assigned our service request number K0505844.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace
Project Chemist

EW/jeb

cc: Hank Rakoz, Longview Fibre

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

COLUMBIA ANALYTICAL SERVICES, INC.

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client : Longview Fibre Company
Project Name : Seattle Wastewater
Project No. :

Service Request : K0505844

Sample Name :	Lab Code :
#1 Decanting (composite sample)	K0505844-001
Method Blank	K0505844-MB

Comments:

Approved By: _____ Date: 11/30/05

00004

Columbia Analytical Services INC.
An Employee - Owned Company

CHAIN OF CUSTODY

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

SR#: K0505844

PAGE _____ OF _____ COC # _____

PROJECT NAME: Seattle West Water
PROJECT NUMBER:
PROJECT MANAGER: Mike Anderson
COMPANY/ADDRESS: 5407 East Marginal Way South
Seattle WA 98134
CITY/STATE/ZIP: Longview Fibre Co
E-MAIL ADDRESS: mjanderson@lngfibre.com
PHONE: (206) 762-7170 FAX: (206) 767-2442
SAMPLER(S) SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐	Volatile Organics 624☐ 8260☐	Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐	BTEX☐ 8021☐	Fuel Fingerprint (FIO)☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM☐	1664 SGT☐	PCB's Aroclors☐ Congeners☐	Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☐	Metals, Total or Dissolved (See list below)	Cyanide☐	pH, Cond., Cl, SO4, PO4-P, NO2, NO3, BOD, TSS, TDS (circle) NH3-N, COD, Total-P, TKN, TOC, DOC (circle) NO2+NO3	TOX 9020☐ AOX 1650☐ 506☐	REMARKS
#1 downstream (composite sample)	11/14/05	10:35 am			1												✓				

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
___ III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr (Cu) Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature	Signature
Date/Time: 11/14/05 10:45	Date/Time: 11/15/05 10:00	Date/Time	Date/Time
Printed Name: Mike Anderson	Printed Name: A Haynes	Printed Name	Printed Name
Firm: Longview Fibre Co.	Firm: ACS	Firm	Firm

RCOC #1 06/03

LFC002838

Columbia Analytical Services Inc.
Cooler Receipt and Preservation Form

PC Ecl IV:

Project/Client LV Fibre | Seattle Service Request K05 5894

Cooler received on 11/16/05 and opened on 11/16/05 by A. Jurell

1.	Were custody seals on outside of coolers?	(Y)	N
	If yes, how many and where? 1 each Cooler		
2.	Were custody seals intact?	(Y)	N
3.	Were signature and date present on the custody seals?	(Y)	N
4.	Is the shipper's airbill available and filed? If no, record airbill number:	(Y)	N
5.	COC#		
	Temperature of cooler(s) upon receipt: (°C)	2.4	
	Temperature Blank: (°C)	0.3	
	Were samples hand delivered on the same day as collection?	~~Y~~	~~N~~
6.	Were custody papers properly filled out (ink, signed, etc.)?	(Y)	N
7.	Type of packing material present Gel Pks		
8.	**Did all bottles arrive in good condition (unbroken)?**	(Y)	N
9.	Were all bottle labels complete (i.e analysis, preservation, etc.)?	(Y)	N
10.	Did all bottle labels and tags agree with custody papers?	(Y)	N
11.	**Were the correct types of bottles used for the tests indicated?**	(Y)	N
12.	Were all of the preserved bottles received at the lab with the appropriate pH?	(Y)	N
13.	Were VOA vials checked for absence of air bubbles, and if present, noted below?	~~Y~~	~~N~~
14.	Were the 1631 Mercury bottles checked for absence of air bubbles, and if present, noted below?	~~Y~~	~~N~~
15.	Did the bottles originate from CAS/K or a branch laboratory?	Y	(N)
16.	**Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?**	~~Y~~	~~N~~
17.	Was C12/Res negative?	~~Y~~	~~N~~

Explain any discrepancies: _____

RESOLUTION: _____

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

00097

Seattle Water Treatment Sample Log

Date: 11/14/05

Any oil sheen present? No

Any odor present? None

Any noticeable turbidity? No

Color: Orange tint

Clean water pH: 7.3

LFCo. Lab Service Memorandum

No. 12204

Date: 14 NOV 2005

Subject: Copper in Seattle Water Treatment Sample

Keywords: Copper, Seattle, Water Treatment

Requested by: Dave Mendenhall **Performed by:** Colleen Roulette

Source and Description of Sample:

One sample from Seattle's Water Treatment (Beckart Treated Water), dated 11/03/05, was brought to the Project lab for analysis. Additional data on the sample bottle was: "1.00 minute poly V-100 ~ 3 Gal. In 5700 Gal. Batch".

Analytical Methods and Procedures:

Copper was run on the Unicam 969 Solaar AA.

Results:

	ppm Copper
Treated	0.690

Columbia Analytical Services INC.
1317 South 13th Avenue
Kelso, WA 98626

Confirmation of Sample Receipt

To:	Mike Anderson	**From:**	Ed Wallace
Email:	mjanderson@longfibre.com	**Email:**	EWallace@kelso.caslab.com
Fax:	206-767-2442	**Fax:**	360-636-1068
Phone:	206-762-7170	**Phone:**	360-577-7222 x3291

Samples for analysis have been received by Columbia Analytical Services on 11/02/2005 and assigned our Service Request number **K0505395**. **Please verify the following information and notify me of any corrections as soon as possible.**

The estimated completion date for this work is: **11/23/2005**

Client: Longview Fibre Company
Project: Seattle Stormwater

PO Number: 1299

EDD Required: No

Tier: I

Report To: Mike Anderson
Longview Fibre Company
5901 East Marginal Way South
Seattle, WA 98124

Billing Address: Accounts Payable
Longview Fibre Company
End of Fibre Way
P.O. Box 3000
Longview, WA 98632-0300

Thank you for your business!

A - Test is Authorized H - Test is On Hold P - Test is Authorized for Prep Only C - Test has been Cancelled

			150.1 PH	160.2 TSS	1664 O_G_HEM	180.1 TURB	6010B METALS_T	7421 PB_T
K0505395-001	Roof Drain	10/31/05 2000	A	A	A	A	A	A

Test Comments:

Group	Test/Method	Samples	Comments
GenChem	150.1/PH	1	rec'd past hold time
Metals	6010B/METALS_T	1	Cu, Zn

January 5, 2006

Dear Mr. Arnaud Girard:

I would also like to report some sample testing I had done at our Longview Fibre Company laboratory. We were trying to optimize the treatment process though the Beckart.

Our laboratory in Longview is non-accredited by the State of Washington for metals analysis.

I received results from samples sent to Longview Fibre Company's laboratory on: November 14, 2005, the results were 0.69ppm for copper.

If you have any questions please call me at (206)762-7170

Sincerely,

Mike Anderson
Environmental Coordinator
Longview Fibre Company
Seattle, WA. 98134

Sample site number: A4500
Permit/DA No.: 631-02

Industrial Waste Quarterly Self-Monitoring Report

Mail or FAX to: King County Industrial Waste
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658
Phone 206-263-3000 / FAX 206-263-3001

This form is available at http://dnr.metrokc.gov/wlr/indwaste

Company Name: Longview Fibre Company

Please specify year: 2005 **QUARTER** 3 **Sample Site No.:** A4500 **Permit/DA No.:** 631-02

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	Copper (Cu)			Non-Polar fats, oils & grease (FOG) (Record average only)	Settleable Solids (ml/L)	Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)
July									
					should be .057				
								Total volume discharged for July	50,420
August	8/29/05	C	.57ppm					1,843	
								Total volume discharged for August	37,520
September									
								Total volume discharged for September	42,370

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent _____ Date _____

→ Maximum daily flow from this quarter: **4793 gallons.** Date on which maximum daily flow occurred: **7/20/05**

Due Date: **Third Quarter Report is due by October 15 of each year..**

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Company	**Service Request :**	K0503514
Project Name :	Seattle Wastewater	**Date Collected :**	08/29/05
Project No. :		**Date Received :**	08/31/05
Matrix :	Water	**Date Extracted :**	08/31/05

Total Metals
Units: ug/L (ppb)

Analyte:	Copper
EPA Method:	200.7
Method Reporting Limit:	10
Date Analyzed:	09/07/05

Sample Name	**Lab Code**	
#1 decanting (Composite sam	K0503514-001	57
Method Blank	K0503514-MB	ND

Comments:

00005

LFC002846

1317 South 13th Avenue P.O. Box 479 Kelso, Washington 98626 (360) 577-7222 (360) 636-1068 fax

Columbia Analytical Services INC.
An Employee - Owned Company

September 9, 2005 Service Request No: K0503514

Mike Anderson
Longview Fibre Company
5901 East Marginal Way South
Seattle, WA 98124

RE: Seattle Wastewater

Dear Mike:

Enclosed are the results of the sample(s) submitted to our laboratory on August 31, 2005. For your reference, these analyses have been assigned our service request number K0503514.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace

Ed Wallace
Project Chemist

EW/jeb

cc: Hank Rakoz, Longview Fibre

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

COLUMBIA ANALYTICAL SERVICES, INC.

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client : Longview Fibre Company
Project Name : Seattle Wastewater
Project No. :

Service Request : K0503514

Sample Name :	Lab Code :
#1 decanting (Composite sample)	K0503514-001
Method Blank	K0503514-MB

Comments:

00004

Approved By: _____ Date: 9/8/05

Columbia Analytical Services INC
An Employee - Owned Company

CHAIN OF CUSTODY

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

SR#: KLS03514

PAGE _____ OF _____ COC #_____

PROJECT NAME: Seattle wastewater
PROJECT NUMBER:
PROJECT MANAGER: Mike Anderson
COMPANY/ADDRESS: Longview Fibre Co.
5961 East Marginal Way South
CITY/STATE/ZIP: Seattle, WA 98134
E-MAIL ADDRESS: manderson@longfibre.com
PHONE #: (206) 762-7170 FAX #: (206) 767-2442
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐	Volatile Organics 624 ☐ 8260 ☐	Hydrocarbons (*see below) Gas ☐ 8021 ☐ BTEX ☐ Diesel ☐ Oil ☐ Fuel Fingerprint (FIO) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐	PCB's Aroclors ☐ Congeners ☐	Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐	Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐	PAHS 8310 ☐ SIM ☐	Metals, Total or Dissolved (See list below)	Cyanide ☐	pH, Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle) NH3-N, COD, Total-P, TKN, TOC, DOC (circle) NO2+NO3	Hex-Chrom ☐	TOX 9020 ☐ AOX 1650 ☐ 506 ☐					REMARKS
#1 decanting (Composite Sample)	5/26/05	8:30 am			1								✓											

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
___ III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
_X_ 5 Day
____ Standard (10-15 working days)
____ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr (Cu) Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature	Signature Frank Blank	Signature	Signature
Date/Time	Date/Time 5/26/05 1250	Date/Time	Date/Time
Printed Name Mike Anderson	Printed Name Blank	Printed Name	Printed Name
Firm Longview Fibre Co	Firm CAS	Firm	Firm

RCOC #1 06/03

LFC002851

Columbia Analytical Services Inc.
Cooler Receipt and Preservation Form

PC Eef

Project/Client Fibre Work Order K05 3574

Cooler received on 8/31/05 and opened on 8/31/05 by A. Juell

1.	Were custody seals on outside of coolers? If yes, how many and where? 1 each side	(Y)	N
2.	Were custody seals intact?	(Y)	N
3.	Were signature and date present on the custody seals?	(Y)	N
4.	Is the shipper's airbill available and filed? If no, record airbill number: 881483374204	Y	N
5.	COC#		
	Temperature of cooler(s) upon receipt: (°C) 18.3		
	Temperature Blank: (°C) 16.1		
	Were samples hand delivered on the same day as collection?	~~Y~~	~~N~~
6.	Were custody papers properly filled out (ink, signed, etc.)?	(Y)	N
7.	Type of packing material present thaw gel pks, sleeves		
8.	**Did all bottles arrive in good condition (unbroken)?**	(Y)	N
9.	Were all bottle labels complete (i.e analysis, preservation, etc.)?	(Y)	N
10.	Did all bottle labels and tags agree with custody papers?	(Y)	N
11.	**Were the correct types of bottles used for the tests indicated?**	(Y)	N
12.	Were all of the preserved bottles received at the lab with the appropriate pH?	(Y)	N
13.	Were VOA vials checked for absence of air bubbles, and if present, noted below?	~~Y~~	~~N~~
14.	Did the bottles originate from CAS/K or a branch laboratory?	(Y)	N
15.	**Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?**	~~Y~~	~~N~~
16.	Was C12/Res negative?	~~Y~~	~~N~~

Explain any discrepancies: _____

RESOLUTION: Metals not affected by Temperature Emm 8/31

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

00007

Seattle Water Treatment Sample Log

Date: 8/29/05

Any oil sheen present? None

Any odor present? No

Any noticeable turbidity? No

Color: Orange tint

Clean water pH: 7.9

Industrial Waste Quarterly Self-Monitoring Report

Mail or FAX to: King County Industrial Waste
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658
Phone 206-263-3000 / FAX 206-263-3001

This form is available at http://dnr.metrokc.gov/wlr/indwaste

Company Name: Longview Fibre Company

Please specify year: 2005 **QUARTER** 2 **Sample Site No.:** A4500 **Permit/DA No.:** 631-02

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	Copper (Cu) ▼	▼	▼	Non-Polar fats, oils & grease (FOG) (Record average only)	Settleable Solids (ml/L)	Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)
April									
								Total volume discharged for April	41,893
May	5/19/05	Composite	.753ppm					1,872	
								Total volume discharged for May	38,942
June									
								Total volume discharged for June	34,645

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent — Date 7-5-05

—▶ Maximum daily flow from this quarter: 3221 **gallons.** Date on which maximum daily flow occurred: **4/21/05**

Due Date: **Second Quarter Report is due by July 15 of each year.**

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Company	**Service Request :**	K0500523
Project Name :	Seattle Water Treatment Plant	**Date Collected :**	05/19/05
Project No. :		**Date Received :**	05/24/05
Matrix :	Water	**Date Extracted :**	05/27/05

Total Metals

Sample Name :	#1 decanting (Composite Sample)	**Units :**	ug/L (ppb)
Lab Code :	K0500523-001	**Basis :**	NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Copper	200.7	20	05/31/05	753	

Comments:

00005

1317 South 13th Avenue P.O. Box 479 Kelso, Washington 98626 (360) 577-7222 ph (360) 636-1068 fax

Columbia Analytical Services INC.
An Employee - Owned Company

June 13, 2005 Service Request No: K0500523

Mike Anderson
Longview Fibre Company
5901 East Marginal Way South
Seattle, WA 98124

RE: Seattle Water Treatment Plant

Dear Mike:

Enclosed are the results of the sample(s) submitted to our laboratory on May 24, 2005. For your reference, these analyses have been assigned our service request number K0500523.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace
Project Chemist

EW/jeb

Cc: Hank Rakoz, Longview Fibre

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

COLUMBIA ANALYTICAL SERVICES, INC.

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client : Longview Fibre Company
Project Name : Seattle Water Treatment Plant
Project No. :

Service Request : K0500523

Sample Name :	Lab Code :
#1 decanting (Composite Sample)	K0500523-001
Method Blank	K0500523-MB

Comments:

Approved By: _____ Date: 6/10/05

00004

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Company	**Service Request :**	K0500523
Project Name :	Seattle Water Treatment Plant	**Date Collected :**	NA
Project No. :		**Date Received :**	NA
Matrix :	Water	**Date Extracted :**	05/27/05

Total Metals

Sample Name :	Method Blank	**Units :**	ug/L (ppb)
Lab Code :	K0500523-MB	**Basis :**	NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Copper	200.7	10	05/31/05	ND	

Comments:

Columbia Analytical Services INC.
An Employee - Owned Company

CHAIN OF CUSTODY

SR#: K0500523

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

PAGE _____ OF _____ COC #_____

PROJECT NAME: Seattle Water Treatment Plant
PROJECT NUMBER:
PROJECT MANAGER: Mike Anderson
COMPANY/ADDRESS: Longview Fibre Co. 5401 East Marginal Way South
CITY/STATE/ZIP: Seattle WA. 98134
E-MAIL ADDRESS: Manderson@longfibre.com
PHONE #: 206 762-7170 FAX #: (206) 767-9442
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐	Volatile Organics 624☐ 8260☐	Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐ ☐Fuel Fingerprint (FIO) ☐NW-HCID	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☐ Congeners☐	Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐	Chlorophenolics 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☐	Metals: Total or Dissolved (See list below)	Cyanide☐	Hex-Chrom☐	pH, Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle)	NH3-N, COD, Total-P, TKN, TOC, DOC (circle) NO2+NO3	TOX 9020☐	AOX 1650☐ 506☐					REMARKS
#1 decanting (composite sample)	5/19/05	11am			1									✓										

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
___ III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
____ Standard (10-15 working days)
____ Provide FAX Results

_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr (Cu) Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

K0500523
Longview Fibre Company
Seattle Water Treatment Plant

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature / Date/Time	A. Duell 5/24/05 1166	Signature / Date/Time	Signature / Date/Time
Printed Name / Firm	Printed Name / Firm CAS	Printed Name / Firm	Printed Name / Firm

RCOC #1 06/03

LFC002861

Columbia Analytical Services Inc.
Cooler Receipt and Preservation Form

PC Ed

Project/Client Longview Fibre Co. Work Order K05 0523

Cooler received on 5/24/05 and opened on 5/24/05 by DP

1.	Were custody seals on outside of coolers?	(Y)	N
	If yes, how many and where? 2 Front		
2.	Were custody seals intact?	(Y)	N
3.	Were signature and date present on the custody seals?	(Y)	N
4.	Is the shipper's airbill available and filed? If no, record airbill number: 12-903-466-01-1000-264.1	Y	(N)
5.	COC#		
	Temperature of cooler(s) upon receipt: (°C)	~~10~~ DP / 4.5	
	Temperature Blank: (°C)	4.3	
	Were samples hand delivered on the same day as collection?	Y	(N)
6.	Were custody papers properly filled out (ink, signed, etc.)?	(Y)	N
7.	Type of packing material present Foam sheets, bubble wrap, paper towels		
8.	**Did all bottles arrive in good condition (unbroken)?**	(Y)	N
9.	Were all bottle labels complete (i.e analysis, preservation, etc.)?	(Y)	N
10.	Did all bottle labels and tags agree with custody papers?	(Y)	N
11.	**Were the correct types of bottles used for the tests indicated?**	(Y)	N
12.	Were all of the preserved bottles received at the lab with the appropriate pH?	(Y)	N
13.	Were VOA vials checked for absence of air bubbles, and if present, noted below?	~~Y~~	~~N~~
14.	Did the bottles originate from CAS/K or a branch laboratory?	(Y)	N
15.	**Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?**	~~Y~~	~~N~~
16.	Was C12/Res negative?	~~Y~~	~~N~~

Explain any discrepancies: _____

RESOLUTION: _____

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

00016

Water Treatment

ACCREDITED IN ACCORDANCE WITH nelac

Columbia Analytical Services INC.

1317 South 13th Avenue
Kelso, WA 98626

Confirmation of Sample Receipt

To:	Mike Anderson	**From:**	Ed Wallace
Email:	mjanderson@longfibre.com	**Email:**	EWallace@kelso.caslab.com
Fax:	206-767-2442	**Fax:**	360-636-1068
Phone:	206-762-7170	**Phone:**	360-577-7222 x3291

Samples for analysis have been received by Columbia Analytical Services on 05/24/2005 and assigned our Service Request number **K0500523**. **Please verify the following information and notify me of any corrections as soon as possible.**

The estimated completion date for this work is: **06/14/2005**

Client: Longview Fibre Company
Project:

PO Number: 1299 OB

EDD Required: No

Tier: I

Report To:
Mike Anderson
Longview Fibre Company
5901 East Marginal Way South
Seattle, WA 98124

Billing Address:
Accounts Payable
Longview Fibre Company
End of Fibre Way
P.O. Box 3000
Longview, WA 98632-0300

Thank you for your business!

LFC002863

Seattle Water Treatment Sample Log

Date: 5/23/05

Any oil sheen present? No

Any odor present? No

Any noticeable turbidity? No

Color: Orange tint

Clean water pH: 8.04

Industrial Waste Quarterly Self-Monitoring Report

Mail or FAX to: King County Industrial Waste
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658
Phone 206-263-3000 / FAX 206-263-3001

This form is available at http://dnr.metrokc.gov/wlr/indwaste

Company Name: Longview Fibre Company

Please specify year: 2005 **QUARTER** 1 **Sample Site No.:** A4500 **Permit/DA No.:** 631-02

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	Copper (Cu)			Non-Polar fats, oils & grease (FOG) (Record average only)	Settleable Solids (ml/L)	Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)
January	1/18/05	Composite	.6 ppm					1,131	
								Total volume discharged for January	19,780
February									
								Total volume discharged for February	23,920
March									
								Total volume discharged for March	34,720

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent — Date 4/5/05

→ Maximum daily flow from this quarter: 2870 gallons. Date on which maximum daily flow occurred: 3/2/05

Due Date: First Quarter Report is due by April 15 of each year.

LFC002865

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Company	**Service Request :**	K2500496
Project Name :	Seattle Water Treatment Plant	**Date Collected :**	01/18/05
Project No. :	NA	**Date Received :**	01/20/05
Matrix :	Water	**Date Extracted :**	02/04/05

Total Metals

Sample Name :	#1 Decanting (Composite Sample)	**Units :**	ug/L (ppb)
Lab Code :	K2500496-001	**Basis :**	NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Copper	6010B	10	02/07/05	600	

Comments:

00005

April 6, 2005

Dear Mr. Arnaud Girard:

I would also like to report some sample testing I had done at our Longview Fibre Company laboratory. I was trying to optimize the treatment process though the Beckart, and these were taken before I understood I needed to report them.

Our laboratory in Longview is non-accredited by the State of Washington for metals analysis.

I received results from samples sent to Longview Fibre Company's laboratory on:
January 31, 2005, they were 0.56ppm for copper.

If you have any questions please call me at (206)762-7170

Sincerely,

Mike Anderson
Environmental Coordinator
Longview Fibre Company
Seattle, WA. 98134

Sample site number: A4500
Permit/DA No.: 631-02

1317 South 13th Avenue P.O. Box 479 Kelso, Washington 98626 (360) 577-7222 ph (360) 636-1068 fax

Columbia Analytical Services INC.
An Employee - Owned Company

February 10, 2005 Service Request No: K2500496

Mike Anderson
Longview Fibre Company
5901 E. Marginal Way S.
Seattle, WA 98124

RE: Seattle Water Treatment Plant

Dear Mike:

Enclosed are the results of the sample(s) submitted to our laboratory on January 20, 2005. For your reference, these analyses have been assigned our service request number K2500496.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace
Project Chemist

EW/jeb

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

COLUMBIA ANALYTICAL SERVICES, INC.

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client : Longview Fibre Company
Project Name : Seattle Water Treatment Plant
Project No. : NA

Service Request : K2500496

Sample Name :	Lab Code :
#1 Decanting (Composite Sample)	K2500496-001
Method Blank	K2500496-MB

Comments:

Approved By: _____ Date: 2/9/05

00004

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Company	**Service Request :**	K2500496
Project Name :	Seattle Water Treatment Plant	**Date Collected :**	NA
Project No. :	NA	**Date Received :**	NA
Matrix :	Water	**Date Extracted :**	02/04/05

Total Metals

Sample Name :	Method Blank	**Units :**	ug/L (ppb)
Lab Code :	K2500496-MB	**Basis :**	NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Copper	6010B	10	02/07/05	ND	

Comments:

00006

Columbia Analytical Services INC.
An Employee - Owned Company

CHAIN OF CUSTODY

SR#: K2500496

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

PAGE _____ OF _____ COC #_____

PROJECT NAME: Seattle Water Treatment Plant
PROJECT NUMBER:
PROJECT MANAGER: Mike Anderson
COMPANY/ADDRESS: 5901 East Marginal Way South
Longview Fibre Co.
CITY/STATE/ZIP: Seattle Wa. 98134
E-MAIL ADDRESS: Mjanderson
PHONE: 206 762 7170 FAX: 206) 767-2442
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐	Volatile Organics 624☐ 8260☐	Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐ ☐ Fuel Fingerprint (FiO) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☐ Congeners☐	Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☐	Metals, Total or Dissolved (See list below)	Cyanide☐	Hex-Chrom☐	pH, Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle) NH3-N, COD, Total-P, TKN, TOC, DOC (circle) NO2+NO3	TOX 9020☐	AOX 1650☐ 506☐				REMARKS
#1 decanting (Composite sample)	1/18/05	10:45am			1								✓											

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
___ III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
____ Standard (10-15 working days)
____ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr (Cu) Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature	Signature	Signature	Signature
Date/Time 1/18/05 11am	Date/Time 1/20/05 1020	Date/Time	Date/Time
Printed Name Mike Anderson	Printed Name	Printed Name	Printed Name
Firm Longview Fibre Co.	Firm CAS	Firm	Firm

RCOC #1 06/03

LFC002873

Columbia Analytical Services Inc.
Cooler Receipt and Preservation Form

PC EA

Project/Client Longview Fibre Co. Work Order K250 0496

Cooler received on 1/20/05 and opened on 1/20/05 by DSCook

1.	Were custody seals on outside of coolers?					Y	N
	If yes, how many and where?						
2.	Were custody seals intact?					Y	N
3.	Were signature and date present on the custody seals?					Y	N
4.	Is the shipper's airbill available and filed? If no, record airbill number: 179034660					Y	N
5.	COC#						
	Temperature of cooler(s) upon receipt: (°C)	3.5					
	Temperature Blank: (°C)	2.3					
	Were samples hand delivered on the same day as collection?					Y	N
6.	Were custody papers properly filled out (ink, signed, etc.)?					Y	N
7.	Type of packing material present gel packs						
8.	**Did all bottles arrive in good condition (unbroken)?**					Y	N
9.	Were all bottle labels complete (i.e analysis, preservation, etc.)?					Y	N
10.	Did all bottle labels and tags agree with custody papers?					Y	N
11.	**Were the correct types of bottles used for the tests indicated?**					Y	N
12.	Were all of the preserved bottles received at the lab with the appropriate pH?					Y	N
13.	Were VOA vials checked for absence of air bubbles, and if present, noted below?					~~Y~~	~~N~~
14.	Did the bottles originate from CAS/K or a branch laboratory?					Y	N
15.	**Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?**					~~Y~~	~~N~~
16.	Was C12/Res negative?					~~Y~~	~~N~~

Explain any discrepancies: _____

RESOLUTION: _____

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

00008

April 6, 2005

Dear Mr. Arnaud Girard:

I would also like to report some sample testing I had done at our Longview Fibre Company laboratory. Our laboratory in Longview is non-accredited by the State of Washington for metals analysis.

I received results from samples sent to Longview Fibre Company's laboratory on: January 31, 2005, they were 0.56ppm for copper.

If you have any questions please call me at (206)762-7170

Sincerely,

Mike Anderson
Environmental Coordinator
Longview Fibre Company
Seattle, WA. 98134

Sample site number: A4500
Permit/DA No.: 631-02

LFCo. Lab Service Memorandum

No. 12019

Date: 31 JAN 2005

Subject: Copper in Seattle Water Treatment Samples

Keywords: Copper, Seattle, Water Treatment

Requested by: Dave Mendenhall **Performed by:** Colleen Roulette

Source and Description of Sample:

Two samples from Seattle's Water Treatment, dated 1/18/05, were brought to the Project lab for analysis.

Analytical Methods and Procedures:

Copper was run on the Unicam 969 Solaar AA.

Results:

	ppm Copper
Untreated	356.01
Treated	0.56

Lab Book No. 279
Page No. 124

Industrial Waste Quarterly Self-Monitoring Report

Mail or FAX to: King County Industrial Waste
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658
Phone 206-263-3000 / FAX 206-263-3001

This form is available at http://dnr.metrokc.gov/wlr/indwaste

Company Name: Longview Fibre Company

Please specify year: 2004 **QUARTER** 4 **Sample Site No.:** A4500 **Permit/DA No.:** 631-02

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	▼	▼	▼	Non-Polar fats, oils & grease (FOG) (Record average only)	Settleable Solids (ml/L)	Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)
October									
	Total volume discharged for October								36,330
Novemebr									
	Total volume discharged for November								15,130
December	12/13/04	C	Less than .05 ppm					1,252	
	Total volume discharged for December								25,770

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent — Date: 12-31-04

→ Maximum daily flow from this quarter: 2,487 **gallons.** Date on which maximum daily flow occurred: **10/6/04**

Due Date: **Fourth Quarter Report is due by Jan 15 of each year.**

LFC002877

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Company	**Service Request :**	K2409894
Project Name :	Seattle Water Treatm	**Date Collected :**	12/13/04
Project No. :	NA	**Date Received :**	12/15/04
Matrix :	Water	**Date Extracted :**	NA

Total Metals

Sample Name :	#1 decanting (composite sample)	**Units :**	ug/L (ppb)
Lab Code :	K2409894-001	**Basis :**	NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Copper	6010B	50	12/19/04	ND	

less than
.05 ppm

Comments:

00005

1317 South 13th Avenue P.O. Box 479 Kelso, Washington 98626 (360) 577-7222 ph (360) 636-1068 fax

Columbia Analytical Services, Inc.
An Employee - Owned Company

December 21, 2004

Service Request No: K2409894

Mike Anderson
Longview Fibre Company
5901 E. Marginal Way S.
Seattle, WA 98124

RE: Seattle Water Treatment Plant

Dear Mike:

Enclosed are the results of the rush sample(s) submitted to our laboratory on December 15, 2004. For your reference, these analyses have been assigned our service request number K2409894.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace

Ed Wallace
Project Chemist

EW/jeb

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

COLUMBIA ANALYTICAL SERVICES, INC.

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client : Longview Fibre Company
Project Name : Seattle Water Treatm
Project No. : NA

Service Request : K2409894

Sample Name :	Lab Code :
#1 decanting (composite sample)	K2409894-001
Method Blank	K2409894-MB

Comments:

Approved By: _____ Date: 12/20/04

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Company	**Service Request :**	K2409894
Project Name :	Seattle Water Treatm	**Date Collected :**	NA
Project No. :	NA	**Date Received :**	NA
Matrix :	Water	**Date Extracted :**	NA

Total Metals

Sample Name :	Method Blank	**Units :**	ug/L (ppb)
Lab Code :	K2409894-MB	**Basis :**	NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Copper	6010B	50	12/19/04	ND	

Comments:

Columbia Analytical Services INC.
An Employee - Owned Company

CHAIN OF CUSTODY

1317 South 13th Ave • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

SR#: K240C8849

PAGE _____ OF _____ COC #_____

PROJECT NAME: Seattle Water Treatment Plant
PROJECT NUMBER:
PROJECT MANAGER: Mike Anderson
COMPANY/ADDRESS: 5101 East Marginal Way South
Seattle Wa. 98134
CITY/STATE/ZIP: Longview Fibre Co.
E-MAIL ADDRESS: MyAnderson@longfibre.com
PHONE: 206) 762-7170 FAX: 206) 767-2442
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐	Volatile Organics 624☐ 8260☐	Hydrocarbons (*see below) Gas☐ 8021☐ BTEX☐ Diesel☐ Oil☐	Fuel Fingerprint (FIQ) NW-HCID Screen	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☐ Congeners☐	Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☐	Metals, Total or Dissolved (See list below)	Cyanide☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle) NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	Hex-Chrom☐	TOX 9020☐ AOX 1650☐ 506☐						REMARKS
#1 decanting (Composite Sample)	12/13/04	2:55 pm			1										✓										

00007

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
___ III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. X 48 hr.
____ 5 Day
____ Standard (10-15 working days)
____ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed: EMW 12/15/04

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr (Cu) Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature:	Signature:
Date/Time: 12/15/04 3:10 pm	Date/Time: 12/15/04 1000	Date/Time:	Date/Time:
Printed Name: Mike Anderson	Printed Name: [illegible]	Printed Name:	Printed Name:
Firm: Longview Fibre Co	Firm: [illegible]	Firm:	Firm:

RCOC #1 06/03

LFC002884

RUSH **Cooler Receipt and Preservation Form** EJ

Project/Client CVI Work Order K240 9894

Cooler received on 12/15/04 and opened on 12/15/04 by AD

1.	Were custody seals on outside of coolers? UPS			Y		N
	If yes, how many and where? 2S					
2.	Were custody seals intact?			Y		N
3.	Were signature and date present on the custody seals?			Y		N
4.	Is the shipper's airbill available and filed? If no, record airbill number: 1Z9034660110002445			Y		N
5.	COC#					
	Temperature of cooler(s) upon receipt: (°C)	0.9				
	Temperature Blank: (°C)	4.3				
	Were samples hand delivered on the same day as collection?			Y		N
6.	Were custody papers properly filled out (ink, signed, etc.)?			Y		N
7.	Type of packing material present Bubble?					
8.	**Did all bottles arrive in good condition (unbroken)?**			Y		N
9.	Were all bottle labels complete (i.e analysis, preservation, etc.)?			Y		N
10.	Did all bottle labels and tags agree with custody papers?			Y		N
11.	**Were the correct types of bottles used for the tests indicated?**			Y		N
12.	Were all of the preserved bottles received at the lab with the appropriate pH?			Y		N
13.	Were VOA vials checked for absence of air bubbles, and if present, noted below?			Y		~~N~~
14.	*Did the bottles originate from CAS/K or a branch laboratory?*			Y		N
15.	**Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?**			Y		~~N~~
16.	Was C12/Res negative?			Y		N

Explain any discrepancies: DID NOT PH - UNKNOWN MATRIX

RESOLUTION:

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

00008

300 Fibre Way
Longview, WA 98632
Phone: 360-575-5570
Fax: 360-575-6110

Longview Fibre Co.

Fax

To:	Mike Anderson	**From:**	DN Mendenhall
Fax:	206-767-2442	**Date:**	December 14, 2004
Phone:		**Pages:**	2
Re:	Sample results	**CC:**	

☐ **Urgent** x **For Review** ☐ **Please Comment** ☐ **Please Reply** ☐ **Please Recycle**

•Comments:

Mike- As you can see, there is a big difference between the treated and untreated samples.

Dave

LFCo. Lab Service Memorandum

No. 11996

Date: 14 DEC 2004

Subject: Copper in Seattle Water Treatment Samples

Keywords: Copper, Seattle, Water Treatment

Requested by: Dave Mendenhall **Performed by:** Colleen Roulette

Source and Description of Sample:

Two samples from Seattle's Water Treatment, received on 11/22/04, were brought to the Project lab for analysis.

Analytical Methods and Procedures:

Copper was run on the Unicam 969 Solaar AA.

Results:

	ppm Copper
Treated	0.03
Untreated	26.08

mg/l = ppm

Lab Book No. 279
Page No. 120

Industrial Waste Quarterly Self-Monitoring Report

Mail or FAX to: King County Industrial Waste
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658
Phone 206-263-3000 / FAX 206-263-3001

This form is available at http://dnr.metrokc.gov/wlr/indwaste

Company Name: Longview Fibre Company

Please specify year: 2004 **QUARTER** 3 **Sample Site No.:** A4500 **Permit/DA No.:** 631-02

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	▼	▼	▼	Non-Polar fats, oils & grease (FOG) (Record average only)	Settleable Solids (ml/L)	Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)
July									
	Total volume discharged for July								29,460
August	8/28/04	C	.933ppm						
	Total volume discharged for August								26,180
September									
	Total volume discharged for September								32,180

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent Date

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Company	**Service Request :**	K2406816
Project Name :	Seattle Water Treatment Plant	**Date Collected :**	08/28/04
Project No. :	NA	**Date Received :**	09/08/04
Matrix :	Water	**Date Extracted :**	09/09/04

Total Metals
Units: ug/L (ppb)

Analyte:	Copper
EPA Method:	6010B
Method Reporting Limit:	20
Date Analyzed:	09/10/04

Sample Name	Lab Code	
#1 Decanting	K2406816-001	933
Method Blank	K2406816-MB	ND

Comments:

1317 South 13th Avenue P.O. Box 479 Kelso, Washington 98626 (360) 577-7222 ph (360) 636-1068 fax

Columbia Analytical Services INC.
An Employee - Owned Company

September 15, 2004 Service Request No: K2406816

Mike Anderson
Longview Fibre Company
End of Fibre Way
P.O. Box 639
Longview, WA 98632

RE: Seattle Water Treatment Plant

Dear Mike:

Enclosed are the results of the rush sample(s) submitted to our laboratory on September 8, 2004. For your reference, these analyses have been assigned our service request number K2406816.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace
Project Chemist

EW/dj

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Columbia Analytical Services INC.
An Employee - Owned Company

CHAIN OF CUSTODY

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

SR#: K2406816

PAGE _____ OF _____ COC #_____

PROJECT NAME: Seattle Water Treatment Plant
PROJECT NUMBER:
PROJECT MANAGER: Mike Anderson
COMPANY/ADDRESS: Longview Fibre Co
5901 East Marginal Way South
CITY/STATE/ZIP: Seattle, WA. 98134
E-MAIL ADDRESS: manderson@longfibre.com
PHONE: (206) 762-7170 FAX: (206) 767-2442
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐	Volatile Organics 624☐ 8260☐	Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐	BTEX☐ 8021☐	Fuel Fingerprint (FIO)☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM☐	1664 SGT☐	PCB's Aroclors☐	Congeners☐	Pesticides/Herbicides 608☐	8081A☐	Chlorophenolics - 8141A☐	Tri☐ Tetra☐	8151A☐	PCP☐	PAHs 8310☐	SIM☐	Metals, Total or Dissolved (See list below)	Cyanide☐	Hex-Chrom☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX 9020☐	AOX 1650☐	506☐	REMARKS
#1 decanting	8/29/04	7:30 pm			1																	✓							
(#2 composite sample)																													

0001.5

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
___ III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
X 5 Day
___ Standard (10-15 working days)
___ Provide FAX Results
9/15/04 Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY:		RECEIVED BY:		RELINQUISHED BY:		RECEIVED BY:	
Signature	Date/Time 9/7/04 4:pm	Signature Amanda Juell	Date/Time 9/8/04 1030	Signature	Date/Time	Signature	Date/Time
Printed Name M. Anderson	Firm Longview Fibre Co	Printed Name Juell	Firm CRS	Printed Name	Firm	Printed Name	Firm

RCOC #1 06/03

LFC002893

RUSH

Columbia Analytical Services Inc.
Cooler Receipt and Preservation Form

PC ca MA

Project/Client LV FIBRE Work Order K240 0816

Cooler received on 9/8/07 and opened on 9/8/07 by MP

1.	Were custody seals on outside of coolers?	(Y)	N
	If yes, how many and where? 2 S		
2.	Were custody seals intact?	(Y)	N
3.	Were signature and date present on the custody seals?	(Y)	N
4.	Is the shipper's airbill available and filed? If no, record airbill number: 12 9034660110000 7249	Y	(N)
5.	COC#		
	Temperature of cooler(s) upon receipt: (°C) 2.2		
	Temperature Blank: (°C) 6.3		
	Were samples hand delivered on the same day as collection?	Y	N
6.	Were custody papers properly filled out (ink, signed, etc.)?	Y	(N)
7.	Type of packing material present BUBBLE, MESH		
8.	**Did all bottles arrive in good condition (unbroken)?**	(Y)	N
9.	Were all bottle labels complete (i.e analysis, preservation, etc.)?	(Y)	N
10.	Did all bottle labels and tags agree with custody papers?	(Y)	N
11.	**Were the correct types of bottles used for the tests indicated?**	(Y)	N
12.	Were all of the preserved bottles received at the lab with the appropriate pH?	Y	(N)
13.	Were VOA vials checked for absence of air bubbles, and if present, noted below?	Y	N
14.	Did the bottles originate from CAS/K or a branch laboratory?	(Y)	N
15.	**Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?**	Y	N
16.	Was C12/Res negative?	Y	N

Explain any discrepancies: NO TESTS LISTED

RESOLUTION:

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials
AZ DILUTION	HNO_3	1 ml	X40023	50		MP

00016

LFC002894

300 Fibre Way
Longview, WA 98632
Fax: 360-575-5110

FAXED
SEP 3 - 2004

Longview Fibre Co.

Fax

To:	Mike Anderson	**From:**	D N Mendenhall
Fax:	206-767-2442	**Date:**	September 3, 2004
Phone:		**Pages:**	2
Re:	Sample results	**CC:**	

☐ **Urgent** x **For Review** ☐ **Please Comment** ☐ **Please Reply** ☐ **Please Recycle**

•Comments:

Mike- Here are the sample results that you requested.

Dave

LFCo. Lab Service Memorandum

No. 11937

Date: 03 SEP 2004

Subject: Copper in Seattle Water Treatment Sample

Keywords: Copper, Seattle Water Treatment

Requested by: Dave Mendenhall **Performed by:** Colleen Roulette

Source and Description of Sample:

One sample from Seattle's Water Treatment, labeled "Decanting sample with 4 minutes V-100, was brought to the Project lab for analysis on 8/30/04.

Analytical Methods and Procedures:

Copper was run on the Unicam 969 Solaar AA.

Results:

% Solids	0.92
	ppm Copper
Just Filtered*	0.004
Digested and then Filtered*	0.935

* I filtered part of the sample, acidified it and ran it on the AA. Then I Digested part of the sample on the Hotplate and then filtered it and ran it on the AA. I was curious as to whether there was any copper in the stuff we were filtering out, although there was not much solids in this sample.

Meth # 6010
ICP

Lab Book No. 279
Page No. 115

Industrial Waste Quarterly Self-Monitoring Report

Mail or FAX to: King County Industrial Waste
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658
Phone 206-263-3000 / FAX 206-263-3001

This form is available at http://dnr.metrokc.gov/wlr/Indwaste

Company Name: Longview Fibre Company

Please specify year: 2004 **QUARTER** 2 **Sample Site No.:** A4500 **Permit/DA No.:** 631-02

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	Copper (Cu) ▼	▼	▼			Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)
April									
	Total volume discharged for April								20240
May									
	Total volume discharged for May								16060
June	6/18/04	C	.055ppm					3500	
	Total volume discharged for June								32520

→ Maximum daily flow from this quarter: 4500 **gallons.** Date on which maximum daily flow occurred: 6-8-04

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent — Date: 7-7-04

Due Date: **Second Quarter Report is due by July 15 of each year.**

LFC002897

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Longview Fibre Company
Project: Seattle Water Treatment Plant
Sample Matrix: Water

Service Request: K2404627
Date Collected: 6/18/04
Date Received: 6/23/04
Date Extracted: 7/1/04
Date Analyzed: 7/6/04

Total Copper
EPA Method 6010B
Units: µg/L (ppb)

Sample Name	Lab Code	MRL	Result
#1 decanting (#1 Composite Sample)	K2404627-001	50	55
Method Blank	K2404627-MB	50	ND

Approved By: _____ Date: 7/06/04

1AMRL/102594

04627icp.jc1 - Sample 7/6/04

1317 South 13th Avenue P.O. Box 479 Kelso, Washington 98626 (360) 577-7222 ph (360) 636-1068 fax

Columbia Analytical Services INC.
An Employee - Owned Company

July 7, 2004 Service Request No: K2404627

Mike Anderson
Longview Fibre Company
5901 E. Marginal Way S.
Seattle, WA 98124

RE: Seattle Water Treatment Plant

Dear Mike:

Enclosed are the results of the sample(s) submitted to our laboratory on June 23, 2004. For your reference, these analyses have been assigned our service request number K2404627.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace

Ed Wallace
Project Chemist

EW/dj

Inorganic Data Qualifiers

*	*The result is an outlier. See case narrative.*
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	*The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.*
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	*The correlation coefficient for the MSA is less than 0.995.*

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Columbia Analytical Services INC
An Employee - Owned Company

CHAIN OF CUSTODY

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

SR#: K2404627

PAGE _____ OF _____ COC #_____

PROJECT NAME: Seattle Water Treatment Plant
PROJECT NUMBER:
PROJECT MANAGER: Mike Anderson
COMPANY/ADDRESS: Longview Fibre Company, 5901 East Marginal Way S.
CITY/STATE/ZIP: Seattle, WA. 98134
E-MAIL ADDRESS: mjanderson@longfibre.com
PHONE #: 206-762-7170 FAX: 206-767-2442
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐	Volatile Organics 624☐ 8260☐	Hydrocarbons (*see below) Gas☐	8021☐ BTEX☐	☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen	Diesel☐ Oil☐	Oil & Grease/TRPH 1664 HEM☐	1664 SGT☐	PCB's Aroclors☐	Congeners☐	Pesticides/Herbicides 608☐ 8081A☐	8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐	PCP☐	PAHS 8310☐ SIM☐	Metals, Total or Dissolved (See list below)	Cyanide☐	Hex-Chrom☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX 9020☐	AOX 1650☐ 506☐					REMARKS
#1 decanting	6/3/04	6:30pm			1															✓												
#1 Composite sample																																
~~#2 decanting~~	~~6/4/04~~	~~7:30pm~~																		~~✓~~												

00005

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
___ III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr
____ 5 Day
____ Standard (10-15 working days)
____ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals. Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature:	Signature:	Signature:	Signature:
Date/Time: 6/8/04 9pm	Date/Time: 6/23/04 1000	Date/Time:	Date/Time:
Printed Name: Mike Anderson	Printed Name:	Printed Name:	Printed Name:
Firm: Longview Fibre Co.	Firm: CAS	Firm:	Firm:

RCOC #1 06/03

LFC002902

Columbia Analytical Services Inc. PC 151
Cooler Receipt and Preservation Form

Project/Client FIBRE Work Order K240 4627

Cooler received on 6/23/04 and opened on 6/23/04 by AP

1.	Were custody seals on outside of coolers? UPS	Y	N
	If yes, how many and where? 1 S		
2.	Were custody seals intact?	Y	N
3.	Were signature and date present on the custody seals?	Y	N
4.	Is the shipper's airbill available and filed? If no, record airbill number: 1Z903466031004385 04	Y	N
5.	COC#		
	Temperature of cooler(s) upon receipt: 14.7		
	Temperature Blank: N/P		
	Were samples hand delivered on the same day as collection?	Y	N
6.	Were custody papers properly filled out (ink, signed, etc.)?	Y	N
7.	Type of packing material present Bubble, Gel Packs		
8.	**Did all bottles arrive in good condition (unbroken)?**	Y	N
9.	Were all bottle labels complete (i.e analysis, preservation, etc.)?	Y	N
10.	Did all bottle labels and tags agree with custody papers?	Y	N
11.	**Were the correct types of bottles used for the tests indicated?**	Y	N
12.	Were all of the preserved bottles received at the lab with the appropriate pH?	Y	N
13.	Were VOA vials checked for absence of air bubbles, and if present, noted below?	Y	N
14.	Did the bottles originate from CAS/K or a branch laboratory?	Y	N
15.	**Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?**	Y	N
16.	Was C12/Res negative?	Y	N

Explain any discrepancies: ICE NOT FROZEN

RESOLUTION: OK To test Metals not affected by Temperature
Ellen 6/24/04

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials
#1 DECANTING	HNO3	1ml	X40023	500p		AP

00006

ACKNOWLEDGMENT OF

RECEIPT OF SAMPLES

TO:

Mike Anderson
Longview Fibre Company
5901 E. Marginal Way S.
Seattle, WA 98124

FROM:

Ed Wallace, Project Chemist
Columbia Analytical Services, Inc.

This is to inform you that the samples received for testing have been assigned CAS Service Request number K2404627. Please verify information and notify me of any corrections.

A copy of our work order is attached. If you have any questions regarding the status of this work, please call me at (360) 577-7222.

Thank you for your business.

Number of pages - 2 - (including cover sheet).

Columbia Analytical Services, Inc.
1317 South 13th Avenue
P.O. Box 479
Kelso, WA 98626
(360) 577-7222
(360) 636-1068 - FAX

* During the next few months, you may notice format changes in some of the documents you receive from CAS. However, these documents should contain the same information you are accustomed to receiving.

Columbia Analytical Services -- Kelso
INTERNAL LOGIN SUMMARY REPORT (iL01)
25-JUN-04 12:53

Service Req. No. K2404627
Client No. 125855
Client Name Longview Fibre Company

Project No.
Project Name Seattle Water Treatment Plant

Bottles: 1 - 1 L Red

Bill To: Longview Fibre Company
Attn: Accounts Payable
5901 E. Marginal Way S.
Seattle, WA 98124

Report To: Longview Fibre Company
Mike Anderson
5901 E. Marginal Way S.
Seattle, WA 98124

P.O. No. 1456 OB (Longview)
Logged In By FADAIR
ISR Num
COC Received Y
Samples Submitted 23-JUN-04

Site ID
Project Chemist Ed Hellace

Storage: SAM 65

CAS Samp No.	Client Sample No.	Matrix	Collected	DueDate	CU/ICP	DIGEST
K2404627-001	#1 decanting (#1 Composite Sample)	WATER	18:30 18-JUN-04	08-JUL-04	1	1

Comments:

125855 cc: Hank Rakoz.

Samples Found To Be Hazardous: NONE__ ALL__ *SOME__

Reviewed By:_____

Columbia Analytical Services inc.

FAX

Date: 7/6/04

Pages: 2 *(including cover sheet)*

To: MIKE ANDERSON

Phone:

Fax: 206-767-2442

CC:

Phone:

Fax:

From: ED WALLACE

Columbia Analytical Services
1317 South 13th Ave.
P.O. Box 479
Kelso, WA 98626
Phone: (360) 577-7222
Fax: (360) 636-1068

RESULTS FOR SAMPLES SUBMITTED: 6/23/04

SERVICE REQUEST: K2404627

Copper Result. The sample was fairly dirty so it had to be diluted 1:5 to get reliable ICP readings.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Longview Fibre Company	**Service Request:**	K2404627
Project:	Seattle Water Treatment Plant	**Date Collected:**	6/18/04
Sample Matrix:	Water	**Date Received:**	6/23/04
		Date Extracted:	7/1/04
		Date Analyzed:	7/6/04

Total Copper
EPA Method 6010B
Units: µg/L (ppb)

Sample Name	Lab Code	MRL	Result
#1 decanting (#1 Composite Sample)	K2404627-001	50	55
Method Blank	K2404627-MB	50	ND

Approved By: _____ Date: 7/6/04

IAMRL/102594

Columbia Analytical Services, Inc.

FAX

Date: 7/6/04

Pages: 2 *(including cover sheet)*

To: MIKE ANDERSON

Phone:

Fax: 206-767-2442

From: ED WALLACE

Columbia Analytical Services
1317 South 13th Ave.
P.O. Box 479
Kelso, WA 98626
Phone: (360) 577-7222
Fax: (360) 636-1068

CC:

Phone:

Fax:

RESULTS FOR SAMPLES SUBMITTED: 6/23/04

SERVICE REQUEST: K2404627

Copper Result. The sample was fairly dirty so it had to be diluted 1:5 to get reliable ICP readings.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Longview Fibre Company	**Service Request:**	K2404627
Project:	Seattle Water Treatment Plant	**Date Collected:**	6/18/04
Sample Matrix:	Water	**Date Received:**	6/23/04
		Date Extracted:	7/1/04
		Date Analyzed:	7/6/04

Total Copper
EPA Method 6010B
Units: µg/L (ppb)

Sample Name	**Lab Code**	**MRL**	**Result**
#1 decanting (#1 Composite Sample)	K2404627-001	50	55
Method Blank	K2404627-MB	50	ND

Approved By: ____________________ Date: 7/6/04

1AMRL/102594

Industrial Waste Quarterly Self-Monitoring Report

Mail or FAX to: King County Industrial Waste
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658
Phone 206-263-3000 / FAX 206-263-3001

This form is available at http://dnr.metrokc.gov/wlr/Indwaste

Company Name: Longview Fibre Company

Please specify year: 20 **QUARTER** 1 **Sample Site No.:** A4500 **Permit/DA No.:** 631-02

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	Copper (Cu)			)		Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)
January	1-28	Grab	2.39 ppm					1120	
	1-28	G.	2.42 ppm					1120	
								Total volume discharged for January	38772
February	2-18	G	2.97 ppm					1464	
	2-18	G	3.12 ppm					1464	
								Total volume discharged for February	18872
March									
								Total volume discharged for March	17512

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent — Date: 4-7-04

→ Maximum daily flow from this quarter: 3200 **gallons.** Date on which maximum daily flow occurred: 1-7-04

Due Date: **First Quarter Report is due by April 15 of each year.**

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Company	**Service Request :**	K2400675
Project Name :	Seattle Water Treatment Plant	**Date Collected :**	01/28/04
Project No. :	NA	**Date Received :**	02/03/04
Matrix :	Water	**Date Extracted :**	02/06/04

Total Metals
Units: ug/L (ppb)

Analyte:	Copper
EPA Method:	6010B
Method Reporting Limit:	10
Date Analyzed:	02/12/04

Sample Name	Lab Code	
#1 Decanting	K2400675-001	2390 = 2.39 ppm
#2 Decanting	K2400675-002	2420 = 2.42 ppm
Method Blank	K2400675-MB	ND

Comments:

00005

LFC002911

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Company	**Service Request :**	K2401230
Project Name :	Seattle Water Treatment Plant	**Date Collected :**	02/18/04
Project No. :	NA	**Date Received :**	02/20/04
Matrix :	Water	**Date Extracted :**	02/26/04

Total Metals
Units: ug/L (ppb)

Analyte:	Copper
EPA Method:	6010B
Method Reporting Limit:	10
Date Analyzed:	03/01/04

Sample Name	Lab Code	
#1 Decanting	K2401230-001	2970 = 2.97 ppm
#2 Decanting	K2401230-002	3120 = 3.12 ppm
Method Blank	K2401230-MB	ND

Comments:

00005

LFC002912

1317 South 13th Avenue P.O. Box 479 Kelso, Washington 98626 (360) 577-7222 ph (360) 636-1068 fax

Columbia Analytical Services INC.
An Employee - Owned Company

March 3, 2004 Service Request No: K2401230

Mike Anderson
Longview Fibre Company
5901 E. Marginal Way S.
Seattle, WA 98124

RE: Seattle Water Treatment Plant

Dear Mike:

Enclosed are the results of the sample(s) submitted to our laboratory on February 20, 2004. For your reference, these analyses have been assigned our service request number K2401230.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace

Ed Wallace
Project Chemist

EW/jeb

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	*The Matrix Spike sample recovery is not within control limits. See case narrative.*
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	*The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike* absorbance.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

COLUMBIA ANALYTICAL SERVICES, INC.

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client : Longview Fibre Company
Project Name : Seattle Water Treatment Plant
Project No. : NA

Service Request : K2401230

Sample Name :	Lab Code :
#1 Decanting	K2401230-001
#2 Decanting	K2401230-002
Method Blank	K2401230-MB

Comments:

Approved By: _____ Date: 3/24/04

00004

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Company	**Service Request :**	K2401230
Project Name :	Seattle Water Treatment Plant	**Date Collected :**	02/18/04
Project No. :	NA	**Date Received :**	02/20/04
Matrix :	Water	**Date Extracted :**	02/26/04

Total Metals
Units: ug/L (ppb)

Analyte:	Copper
EPA Method:	6010B
Method Reporting Limit:	10
Date Analyzed:	03/01/04

Sample Name	Lab Code	
#1 Decanting	K2401230-001	2970
#2 Decanting	K2401230-002	3120
Method Blank	K2401230-MB	ND

Comments:

Columbia Analytical Services INC.
An Employee - Owned Company

CHAIN OF CUSTODY

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

SR#: KZ401230

PAGE 1 OF 1 COC #

PROJECT NAME: Seattle Water Treatment Plant
PROJECT NUMBER:
PROJECT MANAGER: Mike Anderson
COMPANY/ADDRESS: Longview Fibre Co. 5901 East Marginal Way S.
CITY/STATE/ZIP: Seattle WA 98134
E-MAIL ADDRESS: mjanderson@longfibre.com
PHONE: (206) 762-7170 FAX: (206) 767-2442
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐	Volatile Organics 624☐ 8260☐	Hydrocarbons (* see below) Gas☐ Diesel☐ Oil☐	8021☐ BTEX☐	☐Fuel Fingerprint (FIQ) ☐NW-HCID Screen	Oil & Grease/TRPH 1664 HEM☐	1664 SGT☐	PCB's Aroclors☐ Congeners☐	Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☐	Metals, Total or Dissolved (See list below)	Cyanide☐	Hex-Chrom☐	pH, Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle) NH3-N, COD, Total-P, TKN, TOC, DOC (circle) NO2+NO3	TOX 9020☐ AOX 1650☐ 506☐					REMARKS
#1 decanting	2/18/04	6:45pm			1											✓										
#2 decanting	2/18/04	6:55pm			1											✓										

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
___ III. Data Validation Report (Includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
____ Standard (10-15 working days)
____ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr (Cu) Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature	Signature
Date/Time: 2-18-04 7:10pm	Date/Time: 2/20/04 recd	Date/Time	Date/Time
Printed Name: Mike Anderson	Printed Name: [signature]	Printed Name	Printed Name
Firm: Longview Fibre	Firm: CAS	Firm	Firm

RCOC #1 06/03

LFC002918

Columbia Analytical Services Inc.
Cooler Receipt and Preservation Form

Project/Client Lv. Fibre. Seattle Work Order K240 1350

Cooler received on 2/20/04 and opened on 2/20/04. by [illegible]

1. Were custody seals on outside of coolers? (Y) N
   If yes, how many and where? 2F.
2. Were seals intact and signature & date correct? (Y) N
3. Is the shipper's airbill available and filed? If no, record airbill number: UPS 1Z90346603 Y (N)
4. COC# 10042532

Temperature of cooler(s) upon receipt:	5.9			
Temperature Blank:	3.2			

5. Were custody papers properly filled out (ink, signed, etc.)? (Y) N
6. Type of packing material present Gel ice
7. Did all bottles arrive in good condition (unbroken)? (Y) N
8. Were all bottle labels complete (i.e analysis, preservation, etc.)? (Y) N
9. Did all bottle labels and tags agree with custody papers? (Y) N
10. Were the correct types of bottles used for the tests indicated? (Y) N
11. Were all of the preserved bottles received at the lab with the appropriate pH? (Y) N
12. Were VOA vials checked for absence of air bubbles, and if present, noted below? (Y) N
13. Did the bottles originate from CAS/K or a branch laboratory? (Y) N
14. Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection? ~~Y~~ ~~N~~
15. Was C12/Res negative? ~~Y~~ ~~N~~

Explain any discrepancies: _____

RESOLUTION: _____

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

00007

ACKNOWLEDGMENT OF

RECEIPT OF SAMPLES

TO:

Mike Anderson
Longview Fibre Company
5901 E. Marginal Way S.
Seattle, WA 98124

FROM:

Ed Wallace, Project Chemist
Columbia Analytical Services, Inc.

This is to inform you that the samples received for testing have been assigned CAS Service Request number K2401230. Please verify information and notify me of any corrections.

A copy of our work order is attached. If you have any questions regarding the status of this work, please call me at (360) 577-7222.

Thank you for your business.

Number of pages - 2 - (including cover sheet).

Columbia Analytical Services, Inc.
1317 South 13th Avenue
P.O. Box 479
Kelso, WA 98626
(360) 577-7222
(360) 636-1068 - FAX

* During the next few months, you may notice format changes in some of the documents you receive from CAS. However, these documents should contain the same information you are accustomed to receiving.

Columbia Analytical Services -- Kelso
INTERNAL LOGIN SUMMARY REPORT (il01)
23-FEB-04 11:05

Service Req. No. K2401230
Client No. 125855
Client Name Longview Fibre Company

Project No.
Project Name Seattle Water Treatment Plant

Bottles: 2 - 500 ml Red

Bill To: Longview Fibre Company
Attn: Accounts Payable
P.O. Box 3000
Longview, WA 98632-0300

Report To: Longview Fibre Company
Mike Anderson
5901 E. Marginal Way S.
Seattle, WA 98124

P.O. No. 1456 OB
Logged In By APAYNTER
ISR Num
COC Received Y
Samples Submitted 20-FEB-04

Site ID
Project Chemist Ed Wallace

Storage: HERK D3

CAS Samp No.	Client Sample No.	Matrix	Collected	DueDate	CU/ICP	DIGEST
K2401230-001	#1 Decanting	WATER	18:45 18-FEB-04	05-MAR-04	1	1
K2401230-002	#2 Decanting	WATER	18:55 18-FEB-04	05-MAR-04	1	1

Comments:

125855 cc: Hank Rakoz.

Samples Found To Be Hazardous: NONE__ ALL__ *SOME__

Reviewed By:_____

1317 South 13th Avenue P.O. Box 479 Kelso, Washington 98626 (360) 577-7222 ph (360) 636-1068 fax

Columbia Analytical Services, Inc.
An Employee - Owned Company

February 13, 2004 Service Request No: K2400675

Mike Anderson
Longview Fibre Company
5901 E. Marginal Way S.
Seattle, WA 98124

RE: Seattle Water Treatment Plant

Dear Mike:

Enclosed are the results of the sample(s) submitted to our laboratory on February 3, 2004. For your reference, these analyses have been assigned our service request number K2400675.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace

Ed Wallace
Project Chemist

EW/jeb

cc: Hank Rakoz, Longview Fibre
Dave Mendenhall, Longview Fibre

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

COLUMBIA ANALYTICAL SERVICES, INC.

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client : Longview Fibre Company
Project Name : Seattle Water Treatment Plant
Project No. : NA

Service Request : K2400675

Sample Name :	Lab Code :
#1 Decanting	K2400675-001
#2 Decanting	K2400675-002
Method Blank	K2400675-MB

Comments:

Approved By: _____ Date: 2/13/04 00004

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Company	**Service Request :**	K2400675
Project Name :	Seattle Water Treatment Plant	**Date Collected :**	01/28/04
Project No. :	NA	**Date Received :**	02/03/04
Matrix :	Water	**Date Extracted :**	02/06/04

Total Metals
Units: ug/L (ppb)

Analyte:	Copper
EPA Method:	6010B
Method Reporting Limit:	10
Date Analyzed:	02/12/04

Sample Name	Lab Code		
#1 Decanting	K2400675-001	2390	2.39 ppm
#2 Decanting	K2400675-002	2420	2.42 ppm
Method Blank	K2400675-MB	ND	

Comments:

CHAIN OF CUSTODY

Columbia Analytical Services INC.
An Employee - Owned Company

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

SR#: K2400675

PAGE 1 OF 1 COC # _____

90000

PROJECT NAME: Seattle Water Treatment Plant
PROJECT NUMBER:
PROJECT MANAGER: Mike Anderson
COMPANY/ADDRESS: Longview Fibre Co. 59701 East Marginal Way S.
CITY/STATE/ZIP: Seattle, WA. 98134
E-MAIL ADDRESS: Manderson@longfibre.com
PHONE: (206) 762-7170 FAX: (206) 767-2442
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
	1/28					
#1 Decanting	1/28	4:45pm	1		1	
#2 Decanting	1/28	4:47pm	2		1	

Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐
Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐
Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐
☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen
Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐
PCB's Aroclors ☐ Congeners ☐
Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐
Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐
PAHs 8310 ☐ SIM ☐
Metals, Total or Dissolved (See list below) ✓ ✓
Cyanide ☐ Hex-Chrom ☐
pH, Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle) NH3-N, COD, Total-P, TKN, TOC, DOC (circle) NO2+NO3
TOX 9020 ☐ AOX 1650 ☐ 506 ☐

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
___ III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
____ Standard (10-15 working days)
____ Provide FAX Results

Requested Report Date: _____

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature	Signature
Date/Time: 1/28/04	Date/Time: 2/3/04 1105	Date/Time	Date/Time
Printed Name: Mike Anderson	Printed Name: Snell	Printed Name	Printed Name
Firm: Longview Fibre	Firm: CAS	Firm	Firm

RCOC #1 06/03

LFC002927

Columbia Analytical Services Inc.
Cooler Receipt and Preservation Form

Project/Client LV Fibre Work Order K240 0675

Cooler received on 2/3/04 and opened on 2/3/04 by A. Juell

1. Were custody seals on outside of coolers? Y (N)

   If yes, how many and where?

2. Were seals intact and signature & date correct? Y (N)
3. Is the shipper's airbill available and filed? If no, record airbill number: 17905466051004225 6 Y N
4. COC#

   Temperature of cooler(s) upon receipt: 2.2

   Temperature Blank: 5.6

5. Were custody papers properly filled out (ink, signed, etc.)? Y (N)
6. Type of packing material present gel ice
7. Did all bottles arrive in good condition (unbroken)? (Y) N
8. Were all bottle labels complete (i.e analysis, preservation, etc.)? (Y) N
9. Did all bottle labels and tags agree with custody papers? ~~Y~~ (N) AJ
10. Were the correct types of bottles used for the tests indicated? (Y) N
11. Were all of the preserved bottles received at the lab with the appropriate pH? Y (N)
12. Were VOA vials checked for absence of air bubbles, and if present, noted below? ~~Y N~~
13. Did the bottles originate from CAS/K or a branch laboratory? (Y) N
14. Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection? ~~Y N~~
15. Was C12/Res negative? AJ ~~Y N~~

Explain any discrepancies: ~~AR CC Rec'd Rec'd 2 500 ml Reds labeled #1, #2.~~
1 500 Rec'd labeled #1. COC says #1 decanting. 1 500 Rec'd labeled #2. COC says #2 decanting

RESOLUTION:

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials
#1	HNO3	1m	Y40023	500 R		AJ
#2						

00007

ACKNOWLEDGMENT OF

RECEIPT OF SAMPLES

TO:

Mike Anderson
Longview Fibre Company
5901 E. Marginal Way S.
Seattle, WA 98124

FROM:

Ed Wallace, Project Chemist
Columbia Analytical Services, Inc.

This is to inform you that the samples received for testing have been assigned CAS Service Request number K2400675. Please verify information and notify me of any corrections.

A copy of our work order is attached. If you have any questions regarding the status of this work, please call me at (360) 577-7222.

Thank you for your business.

Number of pages 2 (including cover sheet).

Columbia Analytical Services, Inc.
1317 South 13th Avenue
P.O. Box 479
Kelso, WA 98626
(360) 577-7222
(360) 636-1068 - FAX

* During the next few months, you may notice format changes in some of the documents you receive from CAS. However, these documents should contain the same information you are accustomed to receiving.

Columbia Analytical Services -- Kelso
INTERNAL LOGIN SUMMARY REPORT (il01)
05-FEB-04 08:55

Service Req. No. K2400675
Client No. 125855
Client Name Longview Fibre Company

Project No.
Project Name Seattle Water Treatment Plant

Bottles: 2 - 500 ml Red

Bill To: Longview Fibre Company
Attn: Accounts Payable
P.O. Box 3000
Longview, WA 98632-0300

Report To: Longview Fibre Company
Mike Anderson
5901 E. Marginal Way S.
Seattle, WA 98124

P.O. No. 1456 OB
Logged In By AJUELL
ISR Num
COC Received Y
Samples Submitted 03-FEB-04

Site ID
Project Chemist Ed Wallace

Storage: SAM 4

CAS Samp No.	Client Sample No.	Matrix	Collected	DueDate	CU/ICP	^DIGEST
K2400675-001	#1 Decanting	WATER	16:45 28-JAN-04	18-FEB-04	1	1
K2400675-002	#2 Decanting	WATER	16:47 28-JAN-04	18-FEB-04	1	1

Comments:

125855 cc: Hank Rakoz.

Samples Found To Be Hazardous: NONE__ ALL__ *SOME__

Reviewed By:_____

Longview Fibre Company
Value-Added Products • Sustainable Forestry

January 8, 2004

Mr. Arnaud Girard, Investigator
King County – Wastewater Treatment Division
Industrial Waste Program
130 Nickerson Street --- Suite 200
Seattle, WA 98109-1658

RE: Wastewater Discharge Authorization No. 631-02 – Longview Fibre Company

Dear Mr. Girard:

The effective date of this permit is 11/25/03, with the quarterly report as follows:

Longview Fibre Company discharged 49,560 gallons of water in November and 38,310 gallons in December. The discharge was not on a continuous basis but on an as-needed basis. We reuse all the treated water we can but, at times, cannot use all that is available. ALL discharged water was treated through our treatment system prior to being discharged. All water discharged goes through a meter that we read once per week rather than daily due to the small amount discharged and the random times it is discharged.

We had a high of 17,070 gallons in one week in November (extra cleanup was done) to a low of 4,470 gallons in December (short week w/holidays).

Sampling was done once and the results are enclosed. If there are any concerns or questions, please feel free to call me at any time.

Sincerely,

Tom Craig
Plant Manager
LFCo – Seattle

enclosure

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Company	**Service Request :**	K2310108
Project Name :	Seattle Water Treatment Plant	**Date Collected :**	12/18/03
Project No. :	NA	**Date Received :**	12/23/03
Matrix :	Water	**Date Extracted :**	01/02/04

Total Metals
Units: ug/L (ppb)

Analyte:	Copper
EPA Method:	6010B
Method Reporting Limit:	10
Date Analyzed:	01/06/04

Sample Name	Lab Code	
#1 Decanting	K2310108-001	2260
#2 Decanting	K2310108-002	2290
Method Blank	K2310108-MB	ND

Comments:

Industrial Waste Quarterly Self-Monitoring Report

Mail or FAX to: King County Industrial Waste
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658
Phone 206-263-3000 / FAX 206-263-3001

This form is available at http://dnr.metrokc.gov/wlr/indwaste

Company Name: Longview Fibre Company

Please specify year: **20** **QUARTER** **4** **Sample Site No.:** A4500 **Permit/DA No.:** 631-02

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	Copper (Cu)					Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)
October									
	Total volume discharged for October								
Novemebr									
	Total volume discharged for November								49560
December	12/18	GMB	2,26 PPM					1855 GALS	
	Total volume discharged for December								38310

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent

1-8-04
Date

→ Maximum daily flow from this quarter:_____ **gallons.** Date on which maximum daily flow occurred:

Due Date: **Fourth Quarter Report is due by Jan 15 of each year.**

Industrial Waste Quarterly Self-Monitoring Report

Mail or FAX to: King County Industrial Waste
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658
Phone 206-263-3000 / FAX 206-263-3001

This form is available at http://dnr.metrokc.gov/wlr/Indwaste

Company Name: Longview Fibre Company

Please specify year: 2003 **QUARTER** 4 **Sample Site No.:** A4500 **Permit/DA No.:** 631-02

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	Copper (Cu)					Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)
October									
	Total volume discharged for October								
Novemebr									
	Total volume discharged for November								
December	12/18	GRAB	2.26 PPM					1855 GALS	
	Total volume discharged for December								

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent _____ Date _____

—► Maximum daily flow from this quarter:_____ **gallons.** Date on which maximum daily flow occurred:

Due Date: **Fourth Quarter Report is due by Jan 15 of each year.**

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Company	**Service Request :**	K2310108
Project Name :	Seattle Water Treatment Plant	**Date Collected :**	12/18/03
Project No. :	NA	**Date Received :**	12/23/03
Matrix :	Water	**Date Extracted :**	01/02/04

Total Metals
Units: ug/L (ppb)

Analyte:	Copper
EPA Method:	6010B
Method Reporting Limit:	10
Date Analyzed:	01/06/04

Sample Name	Lab Code	
#1 Decanting	K2310108-001	2260
#2 Decanting	K2310108-002	2290
Method Blank	K2310108-MB	ND

Comments:

000005

1317 South 13th Avenue P.O. Box 479 Kelso, Washington 98626 (360) 577-7222 ph (360) 636-1068 fax

Columbia Analytical Services, Inc.
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January 8, 2004 Service Request No: K2310108

Jim Mantrell
Longview Fibre Company
End of Fibre Way
P.O. Box 639
Longview, WA 98632

RE: Seattle Water Treatment Plant

Dear Jim:

Enclosed are the results of the sample(s) submitted to our laboratory on December 23, 2003. For your reference, these analyses have been assigned our service request number K2310108.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3291.

Respectfully submitted,

Columbia Analytical Services, Inc.

Ed Wallace

Ed Wallace
Project Chemist

EW/jeb

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
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DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
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MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
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NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

COLUMBIA ANALYTICAL SERVICES, INC.

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client : Longview Fibre Company
Project Name : Seattle Water Treatment Plant
Project No. : NA

Service Request : K2310108

Sample Name :	Lab Code :
#1 Decanting	K2310108-001
#2 Decanting	K2310108-002
Method Blank	K2310108-MB

Comments:

000004

Approved By: _____ Date: 1/7/04

Columbia Analytical Services INC.
An Employee - Owned Company

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SR#: K2310108

PAGE 1 OF 1 COC #

PROJECT NAME: SEATTLE WATER TREATMENT PLANT
PROJECT NUMBER:
PROJECT MANAGER: JIM MANTELL
COMPANY/ADDRESS: LONGVIEW FIBRE CO
5901 W. MARGINAL WAY S.
CITY/STATE/ZIP: SEATTLE, WA 98134
E-MAIL ADDRESS:
PHONE #: 206-762-7170 FAX #: 206 767-2442
SAMPLER'S SIGNATURE: James R Mantell

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	PAHS 8310 ☐ SIM ☐	REMARKS
#1 DECANTING	12/18	4:10PM				✓	
#2 DECANTING	12/18	4:15PM				✓	

Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐
Volatile Organics 624 ☐ 8260 ☐
Hydrocarbons (see below) Gas ☐ 8021 ☐ BTEX ☐ Diesel ☐ Oil ☐
☐ Fuel Fingerprint (FIO) ☐ NW-HCID Screen
Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐
PCB's Aroclors ☐ Congeners ☐
Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐
Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐
Metals, Total or Dissolved (See list below)
Cyanide ☐ Hex-Chrom ☐
pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle) NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3
TOX 9020 ☐ AOX 1650 ☐ 506 ☐

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
___ III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
____ Standard (10-15 working days)
____ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: James R Mantell	Signature: Amanda Juell	Signature:	Signature:
Date/Time: 12/18/03 7:30PM	Date/Time: 12/23/03 1150	Date/Time:	Date/Time:
Printed Name: JIM MANTELL	Printed Name: Juell	Printed Name:	Printed Name:
Firm: LONGVIEW FIBRE	Firm: CTS	Firm:	Firm:

RCOC #1 06/03

LFC002940

Columbia Analytical Services Inc.
Cooler Receipt And Preservation Form

Project/Client Conoco Ferc Work Order K23 10108

Cooler received on 12/23/03 and opened on 12/23/03 by [signature]

UPS

1.	Were custody seals on outside of cooler? — If yes, how many and where? _____		Y (N)
2.	Were seals intact and signature & date correct?		Y N
3.	Is the shipper's airbill available and filed? If no, record airbill number: 12 963 4663 1004188 2		Y N
4.	COC #		
	Temperature of cooler(s) upon receipt:	10.6	
	Temperature Blank:	10.6	
5.	Were custody papers properly filled out (ink, signed, etc.)?		(Y) N
6.	Type of packing material present Foam?		
7.	Did all bottles arrive in good condition (unbroken)?		(Y) N
8.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?		(Y) N
9.	Did all bottle labels and tags agree with custody papers?		(Y) N
10.	Were the correct types of bottles used for the tests indicated?		(Y) N
11.	Were all of the preserved bottles received at the lab with the appropriate pH?		(Y) N
12.	Were VOA vials checked for absence of air bubbles, and if present, noted below?		Y N
13.	Did the bottles originate from CAS/K or a branch laboratory?		(Y) N
14.	Are CWA Microbiology samples received with > ½ the 24 hr. hold time remaining from collection?		Y N
15.	Was Cl2/Res negative?		Y N

Explain any discrepancies: _____

RESOLUTION: OK To Test, Metals unaffected by Temperature
ECW 12/24

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials
					000007	

CRFREV.DOC3/5/2003

CAS Kelso 1317 South 13th Avenue, P.O. Box 479 Kelso, Washington 98626

Columbia Analytical Services INC.

An Employee - Owned Company

Date: 1.7.04

Number of pages including cover sheet: 3

To:

JIM MANTELL @
LONGVIEW FIBRE CO.

Phone:

Fax phone: 200-767-2442

CC:

From:

ED WALLACE
Columbia Analytical Services, Inc.
1317 South 13th Avenue
P.O. Box 479
Kelso, WA 98625
Phone: (360) 577-7222 ext. 3291
Fax phone: (360) 636-1068

REMARKS: ☐ Urgent ☐ For your review ☐ Reply ASAP ☐ Please comment

REPORT FOR SERVICE REQUEST #K2310108

IMPORTANT NOTE:

The documents accompanying this transmission may contain information which is legally privileged and/or confidential. The information is intended only for the use of the individual or entity named above. If you are not the intended recipient, or the person responsible for delivering it to the intended recipient, you are hereby notified that any disclosure, copying, distribution, or use of any of the information contained in this transmission is strictly **PROHIBITED**. If you have received this transmission in error, please immediately notify us by telephone and mail the original transmission to us. Thank you for your cooperation and assistance.

H:\Group\Forms\Kelsofax.doc

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client :	Longview Fibre Company	Service Request :	K2310108
Project Name :	Seattle Water Treatment Plant	Date Collected :	12/18/03
Project No. :	NA	Date Received :	12/23/03
Matrix :	Water	Date Extracted :	01/02/04

Total Metals
Units: ug/L (ppb)

Analyte:	Copper
EPA Method:	6010B
Method Reporting Limit:	10
Date Analyzed:	01/06/04

Sample Name	Lab Code	
#1 Decanting	K2310108-001	2260
#2 Decanting	K2310108-002	2290
Method Blank	K2310108-MB	ND

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client : Longview Fibre Company
Project Name : Seattle Water Treatment Plant
Project No. : NA

Service Request : K2310108

Sample Name :	Lab Code :
#1 Decanting	K2310108-001
#2 Decanting	K2310108-002
Method Blank	K2310108-MB

Comments:

Approved By: _____ Date: 1/7/04

Subject: [Fwd: Beckart system repair]
From: "Paul L. Brill" <plbrill@longfibre.com>
Date: Tue, 21 Nov 2006 09:47:26 -0800
To: "Woods, Robert E." <rewoods@longfibre.com>
CC: "Barnas, Zbigniew" <zbarnas@longfibre.com>, "Rantanen, Patricia A." <parantanen@longfibre.com>, "Anderson, Michael J." <mjanderson@longfibre.com>, "Rogers, Belton N." <bnrogers@longfibre.com>

Bob,
Attached is Beckart quote to bring system to full operation based on Greg O'Brien's visit here last month. Please follow-up with Greg on the recommendations. Do you want to do the installation?
Larry

Subject: Beckart system repair
From: Greg O'Brien <gregob@teleport.com>
Date: Mon, 20 Nov 2006 19:55:33 -0800
To: "'Rogers, Belton N.'" <bnrogers@longfibre.com>
CC: ZB <zbarnas@longfibre.com>, 'Pat Rantanen' <parantanen@longfibre.com>, "'Paul L. Brill'" <plbrill@longfibre.com>, Mike Anderson <mjanderson@longfibre.com>, 'Fred Hughes' <wastereduction@earthlink.net>, "'Michael J. Eaton'" <mjeaton@longfibre.com>

Belton,

Attached is a quotation for the repair work I discussed with ZB and Pat during my last visit. Please let me know if you have any questions or would like to schedule the work. Thanks.

Sincerely,

Greg O'Brien
Beckart Environmental Inc.
NW Regional Manager
503.789.3013 cell
503.231-3572 fax
gobrien@beckart.com

Beckart system repair **Content-Type:** message/rfc822

Longview Seattle repair G06-00589.00.pdf	**Content-Type:** application/pdf **Content-Encoding:** base64

Beckart Environmental, Inc.
6900 46th Street, Kenosha WI 53144
Phone: 262-656-7680
Fax: 262-656-7699

Quotation: G06-00589.00

To:	**Longview Fibre-Seattle** P.O. Box 24867 (98124) 5901 E. Marginal Way Seattle, WA 98124	**Issued:**	Monday, November 20, 2006
		Expiry Date:	Sunday, February 18, 2007
		Sales Contact:	Greg O'Brien
Attn:	**Belton Rogers**		
Phone:	(206) 762-7170 **Extn:**	**Project:**	Longview Seattle - repairs
Fax:	(206) 767-2442		

Item	Qty	Part Number	Description	Price/Unit	Total

SCOPE OF WORK:

The following is a quotation to bring the Beckart wastewater treatment system back to it's full operational capability. Currently the system is run manually, which takes considerably more operator time and is much more widely varied as far as chemical dosages, cycle times, and optimal pH for consistent copper removal.

The recirculation and decant piping is completely plugged with solids, and the pH probe is no longer functional. The pH analyzer on the control panel is obsolete and should be replaced. The 3-way electrically actuated ball valves required for automation of the treatment and filter press cycles have been removed or rendered nonfunctional. The piping from the decant tank to the clean water storage tank is severely restricted, posing the most significant 'bottleneck" to the system as far as keeping up with the daily generation of wastewater.

Any unused electrically actuated ball valves or actuators previously purchased from Beckart may be returned for full purchase price credit to Beckart.

Please review this quotation, and call or e-mail me if you have any questions or concerns.

Sincerely,

PORTLAND

Greg O'Brien
Beckart Environmental Inc.
NW Regional Manager
503.789.3013 cell
503.231.3572 fax

CALLED 11-22-06

SET THIS UP

Provided:

1.1	2	**541-003-200**	Pneumatic 3way 2" Ball Valve w/actuator
1.2	2	**541-700-000**	Solenoid for Pneumatic Actuated BV
1.3	2	**541-900-000**	Manual Override for Pneumatic Actuated BV
1.4	1	**760-006-051**	Probe-PH, Flow thru, Epoxy Injection
1.5	1	**761-000-000**	Meter, PH/ORP, LCD Display
1.6	1	**171-007-001**	pH 7 Buffer Solution - 1 Quart

pH 7 Buffer Solution - 1 Quart

Beckart Environmental, Inc.
6900 46th Street, Kenosha WI 53144
Phone: 262-656-7680
Fax: 262-656-7699

Quotation: G06-00589.00

Item	Qty	Part Number	Description	Price/Unit	Total

Provided:

1.7 1 **171-004-001** pH 4 Buffer Solution - 1 Quart

pH 4 Buffer Solution - 1 Quart

1.8 1 **install-misc par** Installation

Lot labor and materials for interconnecting piping and wiring installation with the following scope of work: All interconnecting piping within the Beckart Environmental wastewater treatment system specific to the wastewater recirculation, decant, sludge to filter press, and filtrate to the Clean Water storage tank using schedule 80 P.V.C. pipe and fittings as necessary to eliminate blocked piping. Longview Fibre to provide full clearance and access to overhead piping, as well as use of scissor or boom lift to reach overhead pipe run from filtrate to Clean Water tank. Installation of 2- 2" 3-way pneumatic actuated ball valves for press/recirc and decant/bottom to press. All wiring and interconnects will be made according to the National Fire Protection Association National Electrical Code.

Note: Above labor is non-union. Union labor available at extra cost. Time required for installation approximately 2 days, by Beckart Specially trained installers. Does not include disposal of removed pipe/fittings.

Section Total: $7,800.00

Grand Total: $7,800.00

Terms & Conditions

Standard Terms and Conditions Apply. See attached
F.O.B. Kenosha Plant
Payment terms. net 30 days after completeion of work
Prices exclude all applicable taxes.
Delivery 2-4 weeks unless otherwise specified

write report w. new results

Subject: Seattle Water Treatment Plant
Date: Mon, 16 Oct 2006 15:10:59 -0700
From: "Paul L. Brill" <plbrill@longfibre.com>
To: gregob@teleport.com
CC: 'Zbigniew Barnas' <zbarnas@longfibre.com>,
"'Anderson, Michael J.'" <mjanderson@longfibre.com>,
"'Rogers, Belton N.'" <bnrogers@longfibre.com>,
'Pat Rantanen' <parantanen@longfibre.com>,
"\"'Nelson, Gery J.'\" Wo" <gjnelson@longfibre.com>,
"Woods, Robert E." <rewoods@longfibre.com>

Greg,
ZB is out until Wednesday and I was out last week. Our third quarter waste water self monitoring report shows copper at 7.42ppm. I was talking with Mike Anderson and we need to respond to the city. What did you find last Friday? I'd like be able to say what may have happened and what we are doing about it.
Larry

Greg O'Brien wrote:

> ZB,
>
> I am currently in California, but I can make it in on Friday of this week. Please forward to me the results of the test. I'd also like to see the copper levels of the raw water from the same day, if you have that information.
>
> Your usage of the Poly V-100 has been lower in the past few months than it had been historically. I don't have the exact data at my fingertips, but I can research the ordering volume to show you.
>
> When the operators manually add the Poly V-100, are they verifying the dosage by seeing how much the tote is being drawn down? Perhaps there is an intermittent pump problem. During my audit a few weeks ago I tested the pump, and it pumped the correct flow at 50 GPM. We had success at dosage of 2 minutes pumping time at 50 PSI pumping pressure. This should equate to approximately 3 gallons per batch, or slightly less that 1/2" used out of the tote.
>
> I believe that running the treatments in AUTO will also help with having more batch consistency with less operator time. However, as we discussed before, the piping from the pump to the tank across the pH probe is completely plugged, and the 3-way actuated valve was not in place. The decant piping is also completely plugged up. In addition, the piping from the filtrate tank to the CW Tank is also mostly plugged (which by the way adds a lot of time to the press cycle, because

when the filtrate tank fills up it turns off the pump that fills the filter press until the filtrate tank is emptied, and during my last visit that would appear to take at least a couple of hours).

For assurance, start adding 3 minutes Poly V-100 per batch, after the PolyMac 2-4619 and caustic soda are applied and a good "pin floc" formation is seen in the jar test. pH should be at 8.5 or as close to it as possible for best copper removal.

Please advise me as far as what levels were seen in the latest test, and I'll plan to be there Friday. What are your hours on Friday?

Greg O'Brien

Beckart Environmental Inc.

NW Regional Manager

503.789.3013 cell

503.231-3572 fax

gobrien@beckart.com

> -----Original Message-----

> From: Zbigniew Barnas [mailto:zbarnas@longfibre.com]

> Sent: Tuesday, October 10, 2006 8:31 PM

> To: gregob@teleport.com

> Cc: Anderson, Michael J.; Brill, Paul L.; Rogers, Belton N.; Pat Rantanen;

> Nelson, Gery J.

> Subject: treatment plant

>

> Hi Greg.

> Is there a chance to get you over to our plant this week. Out test
> results for last quarter came back with very high copper level, I mean
> sky high. I would like you to audit our system and process just to
> figure out what is going on. I pulled off the line partial tote of Poly
> V-100 because its color is different than the two we have on hand. I am
> not suspecting it is a bad stuff but just to be sure I decided to use
> new tote. Let me know when can you came over and we will talk more.
> Regards.
> zb

Subject: Beckart raw water copper results are in
Date: Wed, 01 Nov 2006 15:19:52 -0800
From: Greg O'Brien <gregob@teleport.com>
To: Mike Anderson <mjanderson@longfibre.com>
CC: 'Zbigniew Barnas' <zbarnas@longfibre.com>, 'Pat Rantanen' <parantanen@longfibre.com>, "'Rogers, Belton N.'" <bnrogers@longfibre.com>

Mike,

The raw water we sampled had copper level of 140 mg/l, which is up quite a bit from the 52.6 mg/L about a year ago. This isn't unusual though, and is of course dependent on the print runs prior to my sample collection. Our treatment program is showing reduction of copper level to 0.03 mg/L on a bench scale jar test.

ppm

Did you send out for a second test just for confirmation? If so, please share the results with me.

Now that I know the treatment program is fine, based on our latest lab results, I'll finish up the quote that I said I would provide for Beckart to replace/repair the necessary components to get the system back up and running in "auto". I'll have this done and e-mailed to you by Friday.

Sincerely,

Greg O'Brien

Beckart Environmental Inc.

NW Regional Manager

503.789.3013 cell

503.231-3572 fax

gobrien@beckart.com

Alt lab
Nanomi
(262) 656-7680
Ext 234

- Not accredited, ~~Accredited~~
- Lab mistake ?
- Confirming test
- Our mistake dump untreated water in tank maint did while pressing

Subject: RE: Seattle Water Treatment Plant
Date: Mon, 16 Oct 2006 15:43:24 -0700
From: Greg O'Brien <gregob@teleport.com>
To: "'Paul L. Brill'" <plbrill@longfibre.com>
CC: 'Zbigniew Barnas' <zbarnas@longfibre.com>,
"'Anderson, Michael J.'" <mjanderson@longfibre.com>,
"'Rogers, Belton N.'" <bnrogers@longfibre.com>,
'Pat Rantanen' <parantanen@longfibre.com>,
"'\"Nelson, Gery J.'\" Wo'" <gjnelson@longfibre.com>,
"'Woods, Robert E.'" <rewoods@longfibre.com>

Paul,

On Friday I met with ZB, Pat and Isaac to discuss what could have been the cause of the high copper levels. Assuming that the treatment was typical (proper chemical dosages were used), and a clear or clear/tinted filter press effluent was tested, it seems that the problem may have come from the Poly V-100 metal scavenging chemical. The Poly V-100 is added to remove the chelated copper present in your wastewater. Our prior testing lowered the copper levels from 52.6 mg/L (PPM) to 0.05 mg/L (PPM), so we know we have an effective chemical program. The Poly V-100 is dispensed from a 275-gallon tote, and it appears that the tote may be contaminated or diluted. A possible means is that water from the treatment tank siphoned back through the piping and into the tote of product. There is a check valve in place to prevent this, but it is possible that the check valve had been leaking.

I collected a sample of the Poly V-100 tote that may have been the problem (ZB had since taken this tote off-line and started using a new tote). I also collected a sample of the raw wastewater, with no chemicals added to it. These samples were overnighted to our lab in Kenosha to test the following:

Copper level in raw wastewater (to verify no drastic change from prior samples)

Copper levels after treatment with suspect Poly V-100

Copper levels after treatment with known "good" Poly V-100

Specific gravity of "suspect" Poly V-100 to determine any contamination.

I will follow up with our lab Tuesday a.m. to confirm receipt of the samples and that the testing has begun. I will notify you Tuesday as to when we have complete results.

Another possible, though unlikely, cause is highly elevated copper levels in the raw wastewater. We will determine if this is true with the above testing procedures.

I will be in touch tomorrow after I speak with our lab.

On another note: ZB asked me to put together a proposal to come in and replace the necessary valves, clear obstructed piping, etc. to get the system back to a more automated means of operation to reduce operator

involvement time and improve consistency from batch to batch. Accurate pH control is critical to effective metals removal, and having this done automatically at the control panel is preferred over constant use of a handheld pH meter. The handheld device is a good back up, but unless it is consistently cleaned and calibrated, it is not as accurate as the probe/analyzer we supply with the system. I'll have this proposal completed and submitted to you within a day or two.

Sincerely,

Greg O'Brien

Beckart Environmental Inc.

NW Regional Manager

503.789.3013 cell

503.231-3572 fax

gobrien@beckart.com

From: Paul L. Brill [mailto:plbrill@longfibre.com]
Sent: Monday, October 16, 2006 3:11 PM
To: gregob@teleport.com
Cc: 'Zbigniew Barnas'; 'Anderson, Michael J.'; 'Rogers, Belton N.'; 'Pat Rantanen'; '"Nelson, Gery J."' Wo; Woods, Robert E.
Subject: Seattle Water Treatment Plant

Greg,
ZB is out until Wednesday and I was out last week. Our third quarter waste water self monitoring report shows copper at 7.42ppm. I was talking with Mike Anderson and we need to respond to the city. What did you find last Friday? I'd like be able to say what may have happened and what we are doing about it.
Larry

Greg O'Brien wrote:

ZB,

I am currently in California, but I can make it in on Friday of this week. Please forward to me the results of the test. I'd also like to see the copper levels of the raw water from the same day, if you have that information.

Your usage of the Poly V-100 has been lower in the past few months than it had been historically. I don't have the exact data at my fingertips, but I can research the ordering volume to show you.

When the operators manually add the Poly V-100, are they verifying the dosage by seeing how much the tote is being drawn down? Perhaps there is an intermittent pump problem. During my audit a few weeks ago I tested the pump, and it pumped the correct flow at 50 GPM. We had success at dosage of 2 minutes pumping time at 50 PSI pumping pressure. This should equate to approximately 3 gallons per batch, or slightly less that 1/2" used out of the tote.

I believe that running the treatments in AUTO will also help with having more batch consistency with less operator time. However, as we discussed before, the piping from the pump to the tank across the pH probe is completely plugged, and the 3-way actuated valve was not in place. The decant piping is also completely plugged up. In addition, the piping from the filtrate tank to the CW Tank is also mostly plugged (which by the way adds a lot of time to the press cycle, because when the filtrate tank fills up it turns off the pump that fills the filter press until the filtrate tank is emptied, and during my last visit that would appear to take at least a couple of hours).

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Please advise me as far as what levels were seen in the latest test, and I'll plan to be there Friday. What are your hours on Friday?

Greg O'Brien

Beckart Environmental Inc.

NW Regional Manager

503.789.3013 cell

503.231-3572 fax

gobrien@beckart.com

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> Sent: Tuesday, October 10, 2006 8:31 PM

> To: gregob@teleport.com

> Cc: Anderson, Michael J.; Brill, Paul L.; Rogers, Belton N.; Pat Rantanen;

> Nelson, Gery J.

> Subject: treatment plant

>

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>
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> results for last quarter came back with very high copper level, I mean
> sky high. I would like you to audit our system and process just to
> figure out what is going on. I pulled off the line partial tote of Poly
> V-100 because its color is different than the two we have on hand. I am
> not suspecting it is a bad stuff but just to be sure I decided to use
> new tote. Let me know when can you came over and we will talk more.
> Regards.
> zb

Subject: Re: Seattle Environmental - Beckart System
Date: Mon, 20 Nov 2006 16:15:29 -0800
From: "Paul L. Brill" <plbrill@longfibre.com>
To: Mike Anderson <mjanderson@longfibre.com>

Mike,
Let's talk Tuesday morning.
Larry

Mike Anderson wrote:

>Per our permit we must report all testing results. I have taken samples
>which I had planed to send to Columbia Analytical. As a follow up, and as
>a requirement for this quarter. I have not sent these samples anywhere
>yet, so lets discuss, thanks Mike A.
>
>"Paul L. Brill" wrote:
>
>
>
>>To All,
>>We received a copper violation in Oakland last week on copper level in
>>excess of permit limits. That reminded me of our most recent Seattle
>>violation. I talked with Bob on Saturday concerning the system repairs
>>- the valve has been replaced and some work done on the piping.
>>I'd like to recheck our treated water discharge to make sure all is
>>well. Please coordinate with Beckart.
>>Thanks,
>>Larry
>>
>>

Subject: Beckart test results report
Date: Wed, 08 Nov 2006 06:50:11 -0800
From: Greg O'Brien <gregob@teleport.com>
To: Mike Anderson <mjanderson@longfibre.com>

Mike,

Here is the report we discussed yesterday. Please give me a call if you have any questions or concerns.

I was thinking about this, and if the operators fill out a daily log sheet (as I've suggested for years), then when an occurrence like Isaac described happened (raw water transferred on top of treated water during a treat cycle), it should be noted on the log sheet, then you would have an operator log sheet to go back to with the specific date to compare with the lab results you get from the water sampled on any specific date. It may have helped explain this recent high result.

Sincerely,

Greg O'Brien

Beckart Environmental Inc.

NW Regional Manager

503.789.3013 cell

503.231-3572 fax

gobrien@beckart.com

LongSeattle Cu final 1006.pdf	**Name:** LongSeattle Cu final 1006.pdf **Type:** Acrobat (application/pdf) **Encoding:** base64

Subject: Beckart sample copper results
Date: Thu, 19 Oct 2006 15:32:54 -0700
From: Greg O'Brien <gregob@teleport.com>
To: Mike Anderson <mjanderson@longfibre.com>
CC: 'Zbigniew Barnas' <zbarnas@longfibre.com>,
"'Rogers, Belton N.'" <bnrogers@longfibre.com>,
'Pat Rantanen' <parantanen@longfibre.com>

Mike,

Attached is the initial lab report on the sample I collected. The Poly V-100 is not comtaminated, as the specific gravity, pH and performance are within the product specs. In side by side testing, copper results were very low. We are awaiting the results of the raw water copper, which we don't do in-house, but has been sent out.

It is possible that the raw water on the day that you tested had a very high level of copper. Another possibility is that there was a lab error and the 7.42 PPM was not correct. The testing we performed shows that a dosage of 2.7 gallons (about 1 minute of Poly V-100 pumping) gave excellent results when added at a pH of 8.0 and mixed for at least 20 minutes.

I'll be in touch with raw water copper numbers, but in the meantime I think you should pull another sample of treated water and send out for a copper test for comparison purposes.

Sincerely,

Greg O'Brien
Beckart Environmental Inc.
NW Regional Manager
503-789-3013
503-231-3572 fax

LongSeacopper.doc	**Name:** LongSeacopper.doc **Type:** Microsoft Word Document (application/msword) **Encoding:** base64

Subject: Re: [Fwd: Copper in water:]
Date: Tue, 30 Sep 2003 14:11:47 -0700
From: "Frase, Stephen E" <sefrase@longfibre.com> **Internal**
To: "Mendenhall David N" <dnmendenhall@longfibre.com>,
"Mantell James R." <jrmantell@longfibre.com>
CC: "Whitford Alan D. (Al)" <adwhitford@longfibre.com>

Copper and zinc are not regulated by federal hazardous waste rules. Copper and zinc are both toxic to fish and may cause the waste to designate as WDOE Extremely Hazardous Waste (EHW), Dangerous Waste (DW), Special Waste, or as solid waste. I know of no Washington standards for copper and zinc metals in landfills. The outcome of the WDOE fish bio-assay on the waste cake by Method 80-12 would determine the regulatory status of the solid removed from a treatment unit. Having checked Sax's Dangerous Properties of Industiral Materials book for oral rat LD50's for several different copper compounds, I found the WDOE toxicity categories to be either "C" or "D" for the compounds. Category "C" and "D" toxic compounds would be DW with a waste code of WT02 Categories X, A, and B toxic would designate as EHW with a WT01 waste code. Book designation of WDOE toxic waste requires the generator to known the respective toxicities and concentrations of the toxic constituents to calculate the equivalent concentration. Since the specific compounds of zinc and copper are unknown, as are their respective concentrations, the book designation method is not viable. The toxicity data suggests that at worst the waste would designate as DW. A solid DW waste which is only WDOE toxic may be managed as a Special waste. Special wastes may go to municipal landfills which meet the conditions at WAC 173-351-300 (2)(b), namely the landfill must have an engineered liner. Special wastes are not counted as DW, but must be reported on annual DW reports. The fish bio-assay results take presedence over book designation. If less than 50% of the fish die at the 100 mg/liter concentration, the waste is only a solid waste-not DW, and could go to a landfill without further consideration. If more than 50% of the fish die at this concentration, the test must be re-run at the 10 mg/liter concentration, the EHW level. If less than 50% die at the 10mg/liter level, the waste is DW and may , for solids, be redesignated as Special Waste. If 50% or more die at 10 mg/liter, the waste is EHW. DW, Special waste, and EHW all require special management. Adding something to remove copper from the wastewater could clean the water, produce a solid cake which would pass the 100 mg/liter fish bio-assay, and be taken to a municipal (sub-title D) landfill as solid waste. EHW would need treatment prior to disposal.
Hope this helps. Steve.

"Mendenhall, David N" wrote:

> *Steve- Do you know what the state standards are for metals in*
> *landfills? Do they have a standard?*
>
> *Dave*
>
> ---
>
> *Subject: Copper in water:*
> *Date: Thu, 25 Sep 2003 16:29:52 -0700*
> *From: "Mantell, James R." <jrmantell@longfibre.com>*
> *To: "Mendenhall David N" <dnmendenhall@longfibre.com>*
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> *Dave:*
> *Tom requested that I contact you with our problem of too much copper in*
> *our discharge water. He would like to know if we change how we treat our*
> *water and remove the copper and put it in the press cake will we end up*
> *with a hazardous waste that we can not put in the land fill. He does not*
> *want to contact Waste Management and ask them. He would like the find a*
> *middle ground where we are in compliance with our discharge permit and*

> not put too much copper in the press cake to get us in trouble with
> Waste management. He would like to have some information before we
> change how we treat the water.
> I need Your help on this matter.
> Jim Mantell